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1943/44

REPORT

OF THE

COMMISSIONER OF THE INTERIOR

OF

PUERTO RICO

FOR THE FISCAL YEAR ENDING JUNE 30, 1944

TO THE

HON. GOVERNOR OF PUERTO RICO

SAN JUAN, P. R.
SERVICE OFFICE OF THE GOVERNMENT OF PUERTO RICO
PRINTING DIVISION
1945

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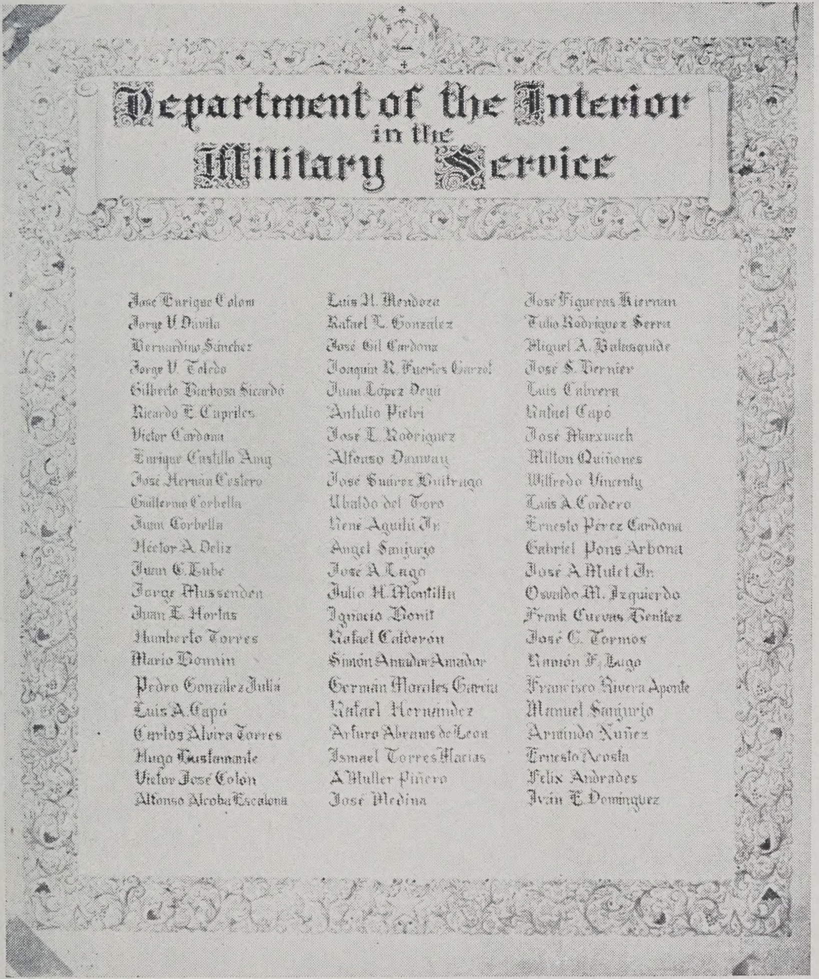

Department of the Interior in the Military Service

José Enrique Colom
Jorge V. Davila
Bernardino Sánchez
Jorge V. Toledo
Gilberto Barbosa Sicardó
Ricardo E. Capriles
Victor Cardona
Enrique Castillo Amy
José Hernán Costero
Guillermo Corbella
Juan Corbella
Héctor A. Deliz
Juan C. Lube
Jorge Mussenden
Juan E. Hortas
Humberto Torres
Mario Bonnin
Pedro González Juliá
Luis A. Capó
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Hugo Bustamante
Victor José Colón
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Luis N. Mendoza
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José Gil Cardona
Joaquin R. Fuertes Garzot
Juan López Deyá
Antulio Pietri
José L. Rodriguez
Alfonso Dauvay
José Suárez Buitrago
Ubaldo del Toro
René Aguilú Jr.
Angel Sanjurjo
José A. Lugo
Julio H. Montilla
Ignacio Bonit
Rafael Calderón
Simón Amador Amador
Germán Morales Garcia
Rafael Hernandez
Arturo Abrams de Leon
Ismael Torres Macias
A. Muller Piñero
José Medina

José Figueras Kiernan
Julio Rodriguez Serra
Miguel A. Balasquide
José S. Bernier
Luis Cabrera
Rafael Capó
José Marxuach
Milton Quiñones
Wilfredo Vincenty
Luis A. Cordero
Ernesto Pérez Cardona
Gabriel Pons Arbona
José A. Mulet Jr.
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Frank Cuevas Benitez
José C. Tormos
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Felix Andrades
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DP/02/54

October 30, 1944.

THE HONORABLE,
THE GOVERNOR OF PUERTO RICO,
La Fortaleza,
San Juan.

DEAR SIR:

I have the honor to submit herewith, for your consideration, the Annual Report, original and two copies, on the activities of the Department of the Interior, for the fiscal year ending June 30, 1944, in compliance with provisions of "An Act to provide a Civil Government for Puerto Rico and for other purposes," approved March 2, 1917 by the Congress of the United States.

Respectfully yours

SERGIO CUEVAS BUSTAMANTE,
Commissioner.

DEPARTMENT OF THE INTERIOR

PERSONNEL

1943–1944

OFFICE OF THE COMMISSIONER

Commissioner	Sergio Cuevas Bustamante.
Assistant Commissioner	Frank Rullán.
Administrative Officer	Emilio López Ramírez.
Secretary	Conchita Carminely.
Counsel	Federico Tilén.

BUREAU OF PUBLIC WORKS

Superintendent	Jesús Benítez Castaño.
Assistant Superintendent	Angel (2) Silva.

DIVISION OF SURVEY AND DESIGN OF HIGHWAYS, ROADS AND BRIDGES

Principal Designing Engineer—(Acting)	Rafael del Valle Zeno.
Senior Highway Engineer	Cecilio Delgado.

DIVISION OF CONSTRUCTION AND INSPECTION

Engineer Director	Rodulfo del Valle.
Associate Construction Engineer	Francisco Fortuño.

DIVISION OF MAINTENANCE AND REPAIR OF ROADS AND BRIDGES

Engineer Director	Ernesto A. Piñero.
General Inspector	Salvador V. Caro.
General Inspector	Adolfo Rieckehoff.

OFFICE OF ROADSIDE IMPROVEMENT AND TRAFFIC CONTROL

Landscape Architect	Fidel Sevillano.

DIVISION OF PUBLIC BUILDINGS AND MUNICIPAL WORKS

Civil Engineer Director	Carlos A. Molina.
Associate Civil Engineer	Guillermo J. Fernández.
Architect	Pedro Méndez.
Superintendent of Public Buildings	Camilo González.

BUREAU OF PUBLIC LANDS AND ARCHIVES

Chief	Armando Morales Cano.
Assistant	Eduardo Castro.

BUREAU OF AUTOMOBILES AND TRAFFIC

Civil Engineer Director	José H. Méndez.

BUREAU OF MINES

Director ---------- Martín López Sanabria (Acting).
Mining Engineer ---------- Horacio T. Ray.

BUREAU OF HARBORS AND DOCKS

Director and Captain of the Port ---------- Manuel Henríquez.
Assistant ---------- Antonio Angulo.

SAN JUAN HARBOR BOARD

Chairman ---------- Sergio Cuevas Bustamante.
Treasurer ---------- Manuel del Toro.
Secretary ---------- Francisco Pereda.

ENGINEERING DIVISION FOR PIERS AND HARBORS

Chief Engineer ---------- Angel Sacarello (Acting).

OFFICE OF THE AERIAL TOPOGRAPHIC MAP

Chief Engineer ---------- Enrique G. Rubio.
Draftman ---------- Bartolo H. Rodríguez.

PARK COMMISSION AND SERVICE OF PARKS AND RECREATION

Director ---------- Miguel A. Barasorda.

ISABELA IRRIGATION SERVICE

Chief Engineer ---------- Orlando R. Méndez.
Assistant Chief Engineer and Superintendent ---------- Domingo Panaini.
Electrical Superintendent ---------- Herminio Nigaglioni.

DIVISION OF PROPERTY, ACCOUNTS AND DISBURSEMENTS

Director ---------- Luis A. Cuevas.
Assistant Director ---------- Eduardo Ortiz Ginorio.

COMMISSIONERS OF THE INTERIOR 1900–1944

Names	Appointed	Ceased
William H. Elliot	June 15, 1900	Feb. 8, 1905
John Stuart Elliot	Feb. 9, 1905	Oct. 24, 1905
Laurance H. Graham	Nov. 4, 1905	Jan. 5, 1910
John A. Wilson	Jan. 19, 1910	Jan. 18, 1914
Manuel V. Domenech	Sept. 17, 1914	Feb. 17, 1918
Guillermo Esteves	Feb. 18, 1918	Oct. 31, 1921
John A. Wilson	Nov. 1, 1921	Apr. 25, 1923
Guillermo Esteves	Apr. 26, 1923	May 31, 1932
Francisco Pons	June 1, 1932	July 31, 1934
Manuel Egozcue	Aug. 4, 1934	July 8, 1935
José Enrique Colom	Aug. 9, 1935	April 7, 1941
Sergio Cuevas	April 8, 1941	To date

REPORT OF THE COMMISSIONER OF THE INTERIOR TO THE HONORABLE THE GOVERNOR OF PUERTO RICO

FISCAL YEAR 1943-44

SUMMARY OF WORK

The Organic Act of Puerto Rico, approved March 2, 1917 provides that the Heads of the Departments created by Section 13 shall form the Executive Council and shall perform the duties prescribed or which may hereafter be prescribed by law. And, in its Sixteenth Section, the duties of the Commissioner are prescribed as follows:

> ''The Commissioner shall superintend all works of a public nature; have charge of all public buildings, grounds and lands, except those belonging to the United States; and shall execute such requirements as may be imposed by law with respect thereto, and perform such other duties as may be prescribed by law.''

By provisions of Insular laws, the Commissioner is ex-officio member of the following governmental bodies:

Committee on Prevention Against Accidents,
Board of Industrial Safety,
San Juan Harbor Board,
Board for the Preservation of Historical Relics,
War Emergency Council,
Land Authority,
Puerto Rico Water Resources Authority,
Communication Authority,
Transportation Authority,
Arecibo Harbor Authority,
Amusements and Sports Commission,
Parks Commission,
Insular Sewerage Commission, and
Isabela Irrigation Service Commission.

Besides, by appointment of the Governor, he is a member of the:

Board of Trustees, Carnegie Library and
Civil Defense Committee.

He has, consequently, to distribute his time and attention among all these activities, even though at times it be detrimental to the incumbencies inherent to his position as Head of the Department.

Notwithstanding these facts and the serious restrictions imposed by present war conditions on construction materials, mechanical equipment and transportation facilities, the reduced technical personnel of the Department is facing the state of emergency with enthusiasm and determination.

The normal activities of the Department were carried out satisfactorily, and effective cooperation was given to all federal and insular agencies such as the WPA, Civil Defense, the Armed Forces, Merchant Marine, etc.

Even though the program of public works was greatly hampered by the limitations of materials and the lack of funds and trained technical personnel, construction work of varied nature was realized at a total cost of $3,965,000. To this sum the federal government contributed with $1,893,000 and the balance was covered with insular funds.

Results obtained during fiscal year under review, as will be noted, do compare favorably with achievements of previous years. In addition, considerable time was given by the Department to the preparation of a construction program, amounting to approximately $23,000,000, to be developed after the war with combined federal and insular funds. The main activities to be realized under this post-war program are the construction of bypasses to the most important cities of the Island, the partial relocation and widening of existing highways and replacement of those bridges which now result inadequate. All of these works are intended to meet the modern trend of requirements for safer and faster traffic.

The realization of these projects will improve the most important routes in Puerto Rico, some of which have been under the very trying conditions of traffic and tropical weather, for nearly two centuries, and will contribute to the crystalization of one of the most cherished ambitions of those pioneer corps that designed and built our first highways, and of this Department: that of designing, constructing and maintaining all routes so as to provide safe and satisfactory transportation.

This desire is evidenced all along the history of road construction in Puerto Rico, and so we find the engineers engaged in these first activities endeavoring to substitute the Indian trail with the ''picas'' (name given in the Island to roadways, two to four meters in width, and without side ditches, built to facilitate traffic). Later on these ''picas'' were improved, drainage provided, high grades eliminated or reduced, widths increased, and wearing surfaces, which originally

REINFORCED CONCRETE BRIDGE OVER "RIO PIEDRAS" RIVER
Insular Road No. 1.—Km. 12.6.
Completed, December, 1943.—Cost, $52,181.33.
Sergio Cuevas Bustamante, Commissioner. Adolfo Mussenden, Contractor.

consisted of large size stone bloks placed by hand on the roadways, were applied. Culverts and bridges rustically built, at first, of native timbers, were replaced with structures constructed with foundations of ashlar stone masonry or brick and timber floors.

Later on came the masonry arches. One of the most important structures of this type first built was the "Martín Peña Bridge", known also by the name of "Bridge of La Aurora". This bridge is said to have been buit in 1784 even though some authorities date its construction back to 1773.

Then came the era of the iron bridge, and many structures of various types were built with metallic spans resting on foundations and piers of masonry. The first one of these metallic bridges is believed to be that over the Cagüitas River, a suspension bridge 30 "varas" in span and 8 wide, the first one of its kind constructed in The Antilles. This bridge was called "The Isabel Segunda Bridge" and was opened to traffic on April 26, 1858. Later on this bridge failed and it was replaced, in 1870, with a new 26 meter metallic span. To this new span was given the name of "Las Damas Bridge" in recognition to the civic spirit of the Ladies Committee of Caguas, that collected the money for its acquisition.

And, finally, we come to the first class road of the day, with wearing surfaces of concrete and/or bituminous mixtures, and the modern, reinforced concrete bridge.

Service of Claims, Advice and Legal Assistance

Directly adscript to the Commissioner's Office, the Service of Claims and Legal Assistance has, during the fiscal year 1943–44:

(*a*) Investigated and studied claims, rendering opinions thereon,
(*b*) Cooperated with the Department of Justice in the preparation, filing and prosecution of several cases before insular courts, the Public Service Commission and the Civil Service Commission,
(*c*) Drafted legislation bills of the Department, and
(*d*) Given assistance to heads of bureaus and divisions of the Department, on legal matters of varied nature.

Bureau of Public Works

This Bureau is under the immediate direction of the Superintendent of Public Works who, as the Law provides, is in charge of the survey, construction and maintenance of public roads and bridges, of public buildings and of harbors and docks; supervises the construction of all municipal works, and realizes other duties assigned to him by the Commissioner.

The work of the Bureau is distributed among the following five divisions, each of which, under the direction of an engineer, performs the activities alloted by the Superintendent and/or the Commissioner:

1. Division of Survey and Design.
2. Division of Construction and Inspection.
3. Division of Maintenance of Roads and Bridges.
4. Division of Public Buildings and Municipal Works.
5. Division of Engineering for Harbors and Docks.

Roads and Bridges

The routine work of survey and preparation of highway, road and bridge projects, to which the Division of Survey and Design of Public Roads devotes, usually, most of its time, was greatly increased with a new activity: that of obtaining field data for the preparation of a $23,000,000 post-war construction program.

In the preparation of the different projects included in this program, many and of a varied nature have been the problems requiring special consideration, such as:

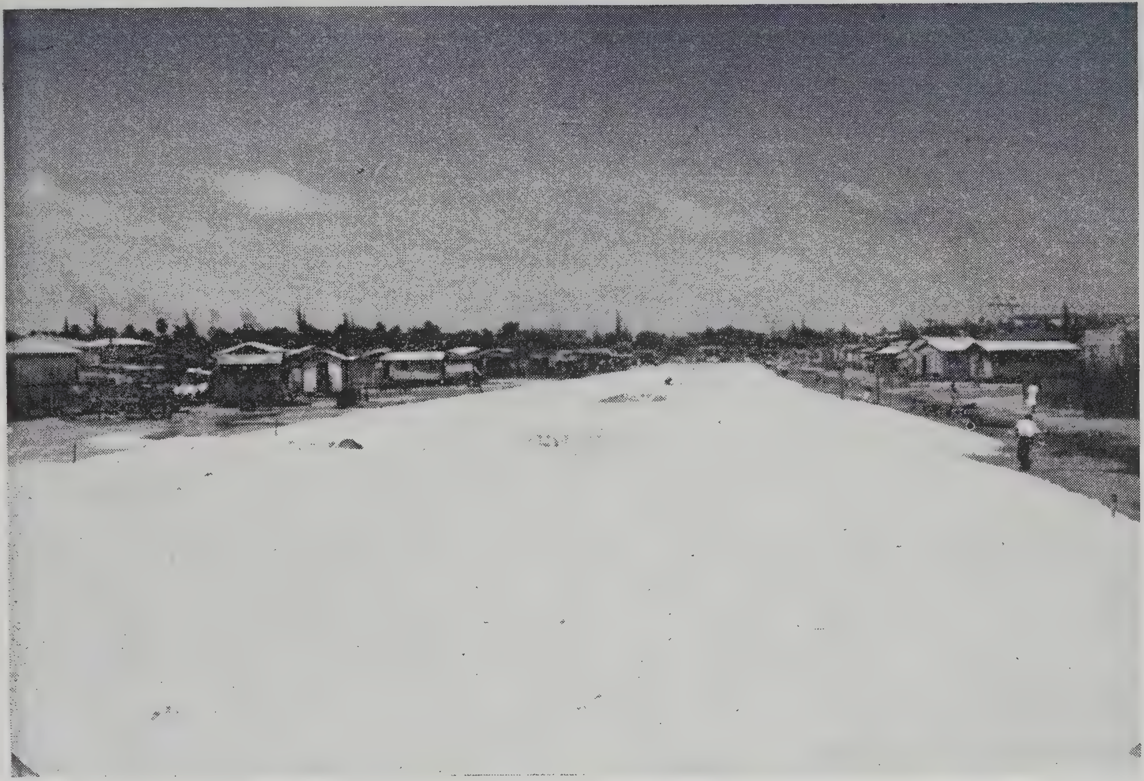
1. Topography of the zone,
2. Appraisal of right-of-way property,
3. Elimination of railroad crossings,
4. Relocation of highway bridges, railroad tracks, irrigation canals, etc.

Satisfactory progress has been made in the solution of all the problems met and the Division hopes that, within the coming fiscal year, final plans will be ready for at least $10,000,000 work of this post-war program which, if realized, will not only improve the most important routes in Puerto Rico, but provide employment opportunities for many people.

Bypasses, insular roads and municipal roads, totalling 173 kilometers, were surveyed and 59 kilometers of insular and municipal roads, railroad crossings and bridges, with an estimated construction cost of $2,044,866, were designed.

The total expenditures of the Division for the fiscal year amounted to $253,134.78, distributed as follows:

1. Survey	$169, 616. 91
2. Design	72, 912. 97
3. Equipment and Materials	10, 604. 90



''EL FANGUITO'' UNDER CONSTRUCTION
Insular Road No. 2.—Santurce.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.

The hight rythm of construction of the pre-war years—over 90 kilometers per year—was somewhat retarded this year on account of the restrictions imposed by the present state of emergency. Materials essential to the highway industry, were placed in the list of critical materials shortly after the attack to Pearl Harbor, and their obtention was very difficult under the strict system of priorities implanted. Machinery, equipment and repair parts were not available; shipping facilities were very limited, and inland transportation very expensive.

To economize critical materials it was necessary to revise designs, adopting in some cases radical changes, and to modify standard specifications.

Notwithstanding all these impediments and the scarcity of technical personnel, the engineering force of the Department, in close cooperation with the Public Works Administration and other federal and insular agencies, could carry out the construction program in a satisfactory manner.

Of the twelve Federal Aid and two Insular contracts in force, eight federal and one insular were completed during the year. The total expenditure of these fourteen contracts, for the year, reached the sum of $953,291.22, distributed as follows:

Public Roads Administration	$541, 049. 44
Department of the Interior	412, 241. 78

Besides the contract work above mentioned, administration work was done by the Work Projects Administration (WPA) until November 1943, and by the War Emergency Program (WEP), after that date, on six sections of Road No. 2, with expenses for the year as follows:

Work Projects Administration (WPA)	$563, 731. 08
Department of the Interior	175, 069. 76
War Emergency Program (WEP)	176, 000. 00
Total	$914, 800. 84

Improvements to Loíza Street, at Santurce, aggregating a total expenditure of $421,379.32 for the year, were realized with combined funds of the Work Projects Administration (WPA), the War Emergency Program (WEP) and the Department of the Interior. Under this project the street, in a length of 1290 meters, was widened, its axis realigned, and finally resurfaced with a bituminous composition over a concrete base. Ornamental fences were built at the newly established property lines and buildings affected by the realignment were reformed.

The municipal road program was carried on during the year, with combined funds of the organizations above mentioned, and the sum of $1,164,357 was spent.

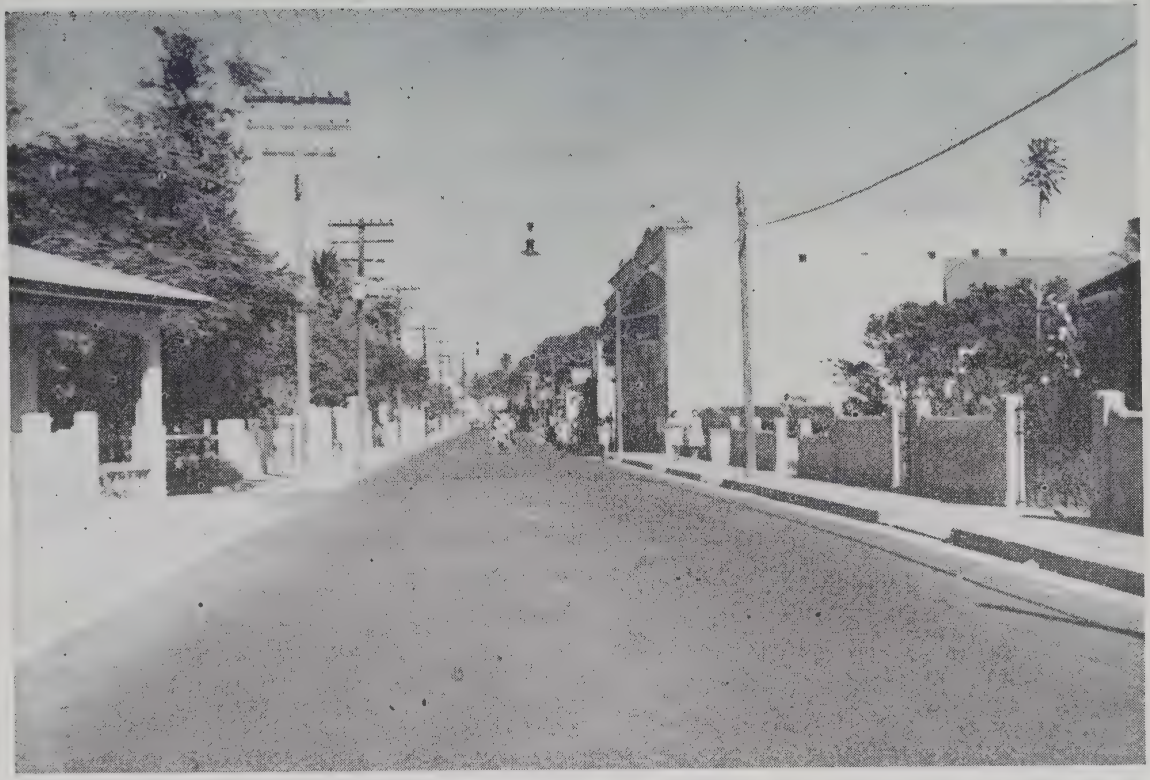
The total cost of the road construction program for the year, amounted to $3,453,800, distributed as follows:

Puerto Rico Reconstruction Administration (PRRA)	$541,050
Work Projects Administration (WPA)	1,351,600
War Emergency Program (WEP)	407,310
Department of the Interior	1,153,840

The task of preserving and maintaining existing roads and bridges in the best possible conditions, so as to provide satisfactory transportation at all times and under all circumstances, is the principal function of the Division of Maintenance and Repairs of Highways, Roads and Bridges. To realize this task the division obtains most of its funds from the proceeds of the tax on gasoline imported for consumption in the Island. Rationing conditions in force have limited the use of gasoline and, therefore, the Division had to face the problem of maintenance of our roads and bridges under very critical conditions, which were aggravated by the increasing traffic of heavy military equipment and materials and by the torrential rains of the 14th and 15th of October, 1943, that followed the passage of a tropical storm to the South of Puerto Rico. Damages estimated at $150,000 were caused by these rains to the insular system of roads and bridges.

It is to be noted that by June 30, 1944, there were 3,040.7 kilometers of roads under maintenance. Of this total, 2,869.1 kilometers were asphalted, and 6.2 concreted, leaving only 165.4 kilometers of macadam roads without treatment.

To keep apace with the maintenance attention of a constantly increasing road system, the field forces engaged in this work were reorganized at the beginning of the fiscal year under review: the number of district offices was raised to 11, each one of them under the direct supervision of a civil engineer; roadmenders were assigned to sections of about 3 kilometers in length, and road foremen were made responsible for the maintenance work of a given number of roadmenders. Under this new organization, which has proved to be very efficient, the sum of $1,418,400 was spent in maintenance work, and the yearly cost of keeping roads in good conditions has been reduced to $466 per kilometer.



IMPROVEMENT WORKS TO LOIZA STREET, SANTURCE.

Realignment of Axis, Paving, Remodelling Buildings and Landscaping.

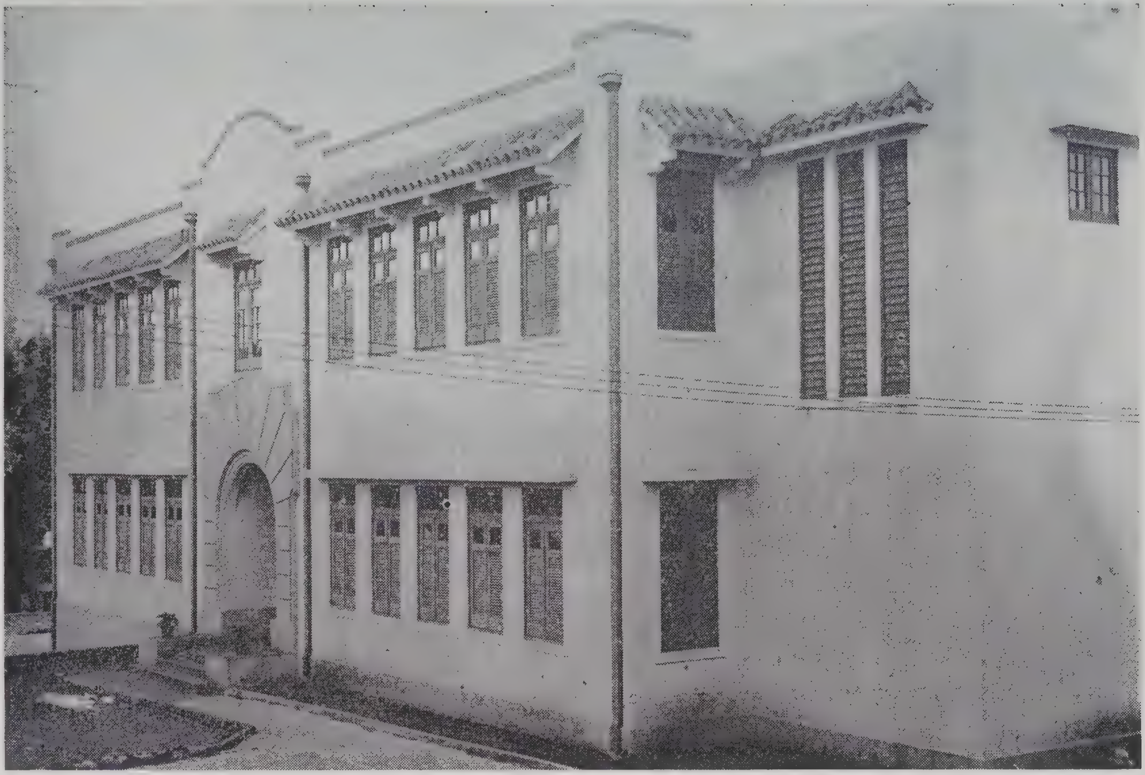
Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.

REINFORCED CONCRETE BRIDGE OVER ''RIO PIEDRAS'' RIVER
Insular Road No. 2.—Km. 3.4.
Completed.—Cost $75,705.32.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.



REINFORCED CONCRETE SCHOOL BUILDING—8 ROOMS
SAN GERMAN, P. R.
Completed, March, 1944.—Cost $50,000.
Sergio Cuevas Bustamante, Commissioner. Félix León Aguilú, Contractor.

Other attentions such as lanscaping and traffic control, removal of landslides, new construction and improvements, etc., raised the expenditures of the maintenance Division to $1,904,000.

In cooperation with the Puerto Rico Planning, Zoning and Urbanizing Board, the Department prepared a general scheme to realize an island wide traffic census. To the personnel of this Division was assigned the field work, and the Board attended to the office work and the preparation of maps. Information at hand is not sufficient, as yet, to permit definite conclusions and recommendations; but it clearly shows that traffic is very heavy on Road No. 1, from San Juan to Cayey and from Ponce to Juana Díaz; on Road No. 2, from San Juan to Aguadilla; and on Road No. 3, from San Juan to Loíza.

PUBLIC BUILDINGS AND MUNICIPAL WORKS

The construction of all insular buildings, the maintenance and repairs of those in existence, the design and construction of municipal works financed with insular funds, and the supervision and inspection of all projects undertaken with municipal loans, are the main activities of the Division.

The deterioration of insular public buildings, specially the older ones, some of which were built two centuries ago, is increasing so rapidly that it is no longer possible to keep them properly maintained with the appropriation of $125,000 included in the budget.

Fortunately, the War Emergency Council assigned $210,000 for repairs to insular and municipal public buildings and the Legislature of Puerto Rico appropriated $50,000 for repairs and improvements to the Insular Hospital of Psychiatry at Río Piedras.

With these funds and an additional sum of $113,100 authorized by the War Emergency Council to pair with the $50,000 appropriation made by the Legislature for said hospital, the division could attend to the repair work of the public buildings of the Island, the estimated value of which is $12,000,000. Preference was given to the following buildings which were in urgent need of them:

The Insular Home for Girls.
The Antituberculosis Sanatorium.
Insular Hospital of Psychiatry.
Hospital for the Leper.
Asylum for the Indigent Blind.
Department of Health.
Castillo Building.

The division also devoted part of its time and efforts to the preparation of plans, specifications and estimates for the construction of school buildings, hospitals, water supply systems and other works sponsored by various municipalities.

New construction work, including 33 fire-stations, 4 school-buildings, 1 retaining wall and several urban and rural water supply systems, was performed at a cost of approximately $511,000.

Bureau of Public Lands and Archives

When the Queen Regent of Spain, in the name of her Son, ceded the sovereignty of the Island of Puerto Rico in 1898 to the United States, by the Treaty of Paris, all buildings, wharves, structures, public highways and other immovable property belonging to the public domain were ceded to the United States. The cession included also all documents referring exclusively to the sovereignty ceded, existing in the archives of the Peninsula, and all such rights as the Crown of Spain possessed in respect to the official archives and records of the Island.

The Bureau of Public Lands and Archives is in charge of all the lands thus ceded and of those acquired through adjudication for non-payment of taxes, as well as of the documents and archives concerning to lands, waters, forests, mines, harbors, concessions, public works and improvements.

No definite land policy was in force at the time of this cession, but an effort was made in 1778, undoubtedly the first one in the history of the Island of Puerto Rico, when by royal decree it was ordered the survey and distribution of all lands owned by the Crown among the largest possible number of families.

This effort and several others made during the Spanish Regime as well as under the American Government, were unsuccessful; but at present effective steps are in progress to establish a precise land policy.

Under provisions of the laws in force, the bureau has been able to carry out, with partial success, the duties of public land policing.

Infractions to the Slum Prevention Act, in the amount of 492, were reported during the fiscal year, but most of them were friendly settled after the infractors had removed their houses from the public lands.

Bureau of Automobiles and Traffic

This bureau is entrusted with the issuance of licenses and the performance of all activities intended to regulate the use of and traffic with motor vehicles, and operates under provisions of Act No. 55, of 1942, as amended by Act No. 119, approved May 12, 1943.

The new system of issuing license certificates, initiated last year, worked to the entire satisfaction of all parties affected, and by June 30, 1944, a total of $932,250.08 had been collected, and 27,648 vehicles registered. The results here commented do show that the low point in the curve of collections reached in 1942–43, has been passed and that once more the trend is upwards.

Bureau of Mines

The work realized by this Bureau during the fiscal year just passed, has been very useful, especially so in the field of investigation and in the cooperation given to the War efforts.

Different places of the Island were visited and research work has been done to determine the commercial possibilities of developing those mineral deposites containing aluminum, tungsten, cadmium, nickel, etc., that have been located. Statistics have been compiled about the production of sand, gravel and stone, and a report on explosives and the ingredients that enter in their composition is under preparation.

Harbors and Docks

Activities of the bureau of Harbors and Docks are rapidly returning to conditions existing prior to the outbreak of the present war, as will be seen by examination of the following data on collections, tonnage, and number of vessels entering ports of the Island:

Year	Vessels	Tonnage	Collections
1938–1939	2, 582	10, 519, 918	$101, 259.39
1939–1940	2, 424	9, 725, 672	101, 487.88
1940–1941	2, 047	8, 108, 577	111, 803.81
1941–1942	1, 758	6, 820, 705	108, 736.15
1942–1943	1, 097	2, 852, 202	95, 740.75
1943–1944	1, 410	2, 958, 150	110, 485.16

Fiscal year 1942–43 marks the turning point of the critical period, if results then obtained are compared with those of preceding years and the ones of the year 1943–44.

The fees paid by the vessels that arrived during this year amounted to $110,485.16, sum that represents an increase of 15 per cent over the returns for last year.

The San Juan Harbor Board, organism created by Act No. 45, of March 7, 1912, to operate and maintain bulkheads and piers constructed by the insular government at the San Juan Harbor, and to supervise new constructions, owns and operates piers 6, 12 and 13, and 1,300 lineal feet of uncovered bulkhead, and a concrete warehouse, which is leased at present.

Collections for the year from wharfage, storage, mooring and other sources, established a record and amounted to $139,393.97.

The financial standing of the San Juan Harbor Board, Trust Fund, as of June 30, 1944, with a balance of $318,404.79, is very satisfactory.

The construction program of the Engineering Division of the San Juan Harbor Board, even though handicaped by restrictions on critical materials, has progressed in a satisfactory manner:

Dredging of the Arecibo Harbor, under the direction of the War Department, was completed in May 1944.
Core boring investigations have been made and levees constructed and maintained, at said harbor, to retain the material dredged.
The Matías Ledesma, Tadeo de Rivera and Marginal Streets, in the vicinity of Piers 12 and 13, were resurfaced.

Construction expenditures, for the fiscal year, amounted to $66,714.86, obtained from different insular appropriations; and projects aggregating $183,000 have been prepared.

Parks and Recreation

The idealistic original conception of the builders of parks and gardens, reflected in the creation of the Elysian Fields and the Hanging Gardens of Babylon, as the peaceful spots of verdure and foliage reserved for the inspiration and delight of poets, students, and phylosophers, has been modified and under the sway of progressing humanity, parks and gardens have come to include not only those places where the weary urban inhabitants ''may be refreshed by breathing pure air, gladdened by the sight of flowers and trees, and solaced by the sound of running waters'' but also the active and semiactive recreation areas with base ball fields, tennis and volley ball courts, amusement apparatus, etc., where the everyday citizen can, in his leisure hours, find the recreation desired.

Both the Park Commission and the Service of Parks and Recreation, fully conscious of their responsibilities with present and coming generations, have accomplished very much towards this end: landscaping and all different sorts of embellishment work have been done at San Juan and at the camps and offices of the Armed Forces; 38 projects have been realized, during the year, in different towns of the Island, including base ball an track fields, basket ball, volley ball and tennis courts, etc., and so the program of cultural and recreational activities is reaching all the corners of the Island.

Isabela Irrigation Service

The severe drought that afflicted the Island, and prevailing war limitations, affected adversely the operation of the Service. Yet, the results obtained during the year were satisfactory and serve to confirm the prediction made some time ago in the sense that the income of the organization would be enough, in the very near future, to cover running expenses and all other obligations.

The run-off into the reservoir amounted to 58,157 acre-feet, or 76 per cent of the average for the previous fifteen years. This limited inflow and the fact that water service to power plants was suspended during an appreciable number of hours throughout the year, to line with concrete the Main Canal, account for the marked drop in power production—nearly 3,900,000 K.W.H.—as compared with that of previous fiscal year.

The total power generated and purchased was 8,852,375 K.W.H., of which 7,313,538 were delivered to consumers in the district and 1,195,880 were sold at the interconnections. The total gross sales of electric energy amounted to $248,236.36.

The total draft from the reservoir, diverted chiefly for power production, was 59,897 acre-feet, or 1,740 acre-feet in excess of the inflow. Of the volume drafted, 3,900 acre-feet were delivered for irrigation purposes, as provided in Act No. 178 of May 14, 1941; 2,442 acre-feet were sold under direct orders, and 3,108 were served to waterworks and for industrial and domestic purposes. It is to be noted that the amount of water served this year for irrigation purposes was 2.6 times as high as that served during previous year and, even so, deliveries could not be made to meet the demand.

The construction of power plant No. 3 continued during the year. The spare unit of plant No. 1 was installed at plant No. 3 and there tested, with satisfactory results, on June 30, 1944. By the end of the fiscal year 90 per cent of the work on this plant had been completed. Final construction cost of this project will exceed the original estimate in about $50,000, which sum was appropriated by Act No. 7 of May 15, 1944.

Irrigation and hydroelectric investigations in the municipalities of Hatillo, Camuy and Quebradillas, were initiated in January, 1944, with funds appropriated under Act No. 58, approved May 10, 1943.

Improvement works at the spillway channel of the Guajataca reservoir, with combined funds of the War Emergency Program and of the Isabela Irrigation Service, were completed on November, 1943, and by the end of the year, 11,000 lineal feet of the Main Canal had been lined with concrete.

Accounts and Disbursements

Disbursements made during the year by the Division of Property, Accounts and Disbursements, were practically $1,237,000 below those of last year, and amounted to $5,690,466.75. Of this sum $2,059,453.29 correspond to cash payments made on 12,937 laborers' pay-rolls, and the balance covered materials, supplies, salaries and miscellaneous expenses. Besides, 414 vouchers from the Isabela Irrigation Service, aggregating a total of $657,711.58, were passed for payment through this division.

The most important changes and promotions made in the personnel of the Department of the Interior during this fiscal year were:

The appointment of Mr. Jesús Benítez Castaño as Superintendent of Public Works, on September 13, 1943.

The appointment of Mr. Ernesto A. Piñero as Civil Engineer Director, Division of Maintenance of Roads and Bridges, August 12, 1943.

The promotion of Mr. José H. Méndez from Assistant Civil Engineer, Division of Maintenance of Roads and Bridges, to Civil Engineer Director, Bureau of Automobiles and Traffic, July 21, 1943.

The appointment of Mr. Emilio López Ramírez as Administrative Officer, April 1, 1944.

The Promotion of Mr. Carlos Tallada from Chief Clerk, Division of Public Buildings and Municipal Works, to Assistant Director, Bureau of Automobiles and Traffic, July 20, 1943.

The promotion of Mr. Miguel A. Barasorda from Assistant Director, to Park Director, Muñoz Rivera Park, May 7, 1944.

DEPARTMENT OF THE INTERIOR
REPORT FOR
FISCAL YEARS 1938-44

COST OF HIGHWAYS AND SECONDARY ROADS CONSTRUCTED BY THE P. R. DEPARTMENT OF THE INTERIOR, FISCAL YEARS 1938-1944

Fiscal Year	Highways		Secondary Roads		Total	
	Kilometers Constructed	Cost of Construction	Kilometers Constructed	Cost of Construction	Kilometers Constructed	Cost of Construction
	Number	Dollars	Number	Dollars	Number	Dollars
1937-1938	15.69	861, 584	27.96	347, 263	43.65	1, 208, 847
1938-1939	18.01	980, 835	35.15	556, 110	53.16	1, 536, 945
1939-1940	24.89	1, 437, 288	44.08	572, 152	68.97	2, 009, 440
1940-1941	18.19	1, 284, 005	74.19	636, 928	92.38	1, 920, 933
1941-1942	7.19	2, 101, 086	37.72	320, 700	44.91	*2, 421, 786
1942-1943	60.92	1, 890, 643	35.04	616, 193	96.32	2, 506, 836
1943-1944	40.36	2, 289, 471	42.36	1, 164, 357	82.72	3, 453, 828
Total	185.25	10, 844, 912	296.86	4, 213, 703	482.11	15, 058, 615

Includes Insular and Federal funds but excludes funds contributed by FWA.
Source: P. R. Department of the Interior.
*This sum includes miscellaneous expenses corresponding to previous years.

DEPARTMENT OF THE INTERIOR
REPORT FOR
FISCAL YEARS 1943-1944

KILOMETERS OF ROADS MAINTAINED AND COST OF MAINTENANCE FISCAL YEARS 1938-44

Fiscal year	Kilometers Maintained	Total cost	Cost per kilometer
	Number	Dollars	Dollars
1937-38	2, 251	904, 519	402
1938-39	2, 317	1, 019, 311	440
1939-40	2, 394	1, 298, 694	542
1940-41	2, 552	1, 220, 881	478
1941-42	2, 688	1, 293, 287	481
1942-43	2, 877	1, 571, 764	546
1943-44	5, 041	1, 418, 417	466

DEPARTMENT OF THE INTERIOR
REPORT FOR
FISCAL YEARS 1943-1944

IMPROVEMENT OF ROADS: KILOMETERS OF CURVES AND CULVERTS WIDENED AND PAVED AND AMOUNT EXPENDED FROM FEDERAL AND INSULAR FUNDS, FISCAL YEARS 1940-44

	Curves & Culverts widened and paved	Amount Expended		
		Federal funds	Insular funds	Total
	Kilometers	Dollars	Dollars	Dollars
1939-40	72.80	747, 639	238, 417	986, 056
1940-41	44.27	807, 991	104, 724	912, 715
1941-42	26.38	1, 464, 734	429, 798	1, 894, 532
1942-43	52.02	1, 456, 334	540, 000	1, 996, 334
1943-44	2.30	67, 762	20, 681	88, 443

The appointment of Mr. Enrique González Cuebas as Land Appraiser, Division of Construction and Inspection, April 18, 1944.

And now, in closing, just a few words of due recognition and praise to the members of this Organization that have gone forward to the battle fronts of the world, undaunted soldiers of all ranks, who, with crusader's zeal and unabatable faith, have joined the legions of honor to win a better and safer place for Humanity.

Respectfully yours

SERGIO CUEVAS BUSTAMANTE,
Commissioner.

DIVISION OF SURVEY AND DESIGN OF HIGHWAYS, ROADS & BRIDGES

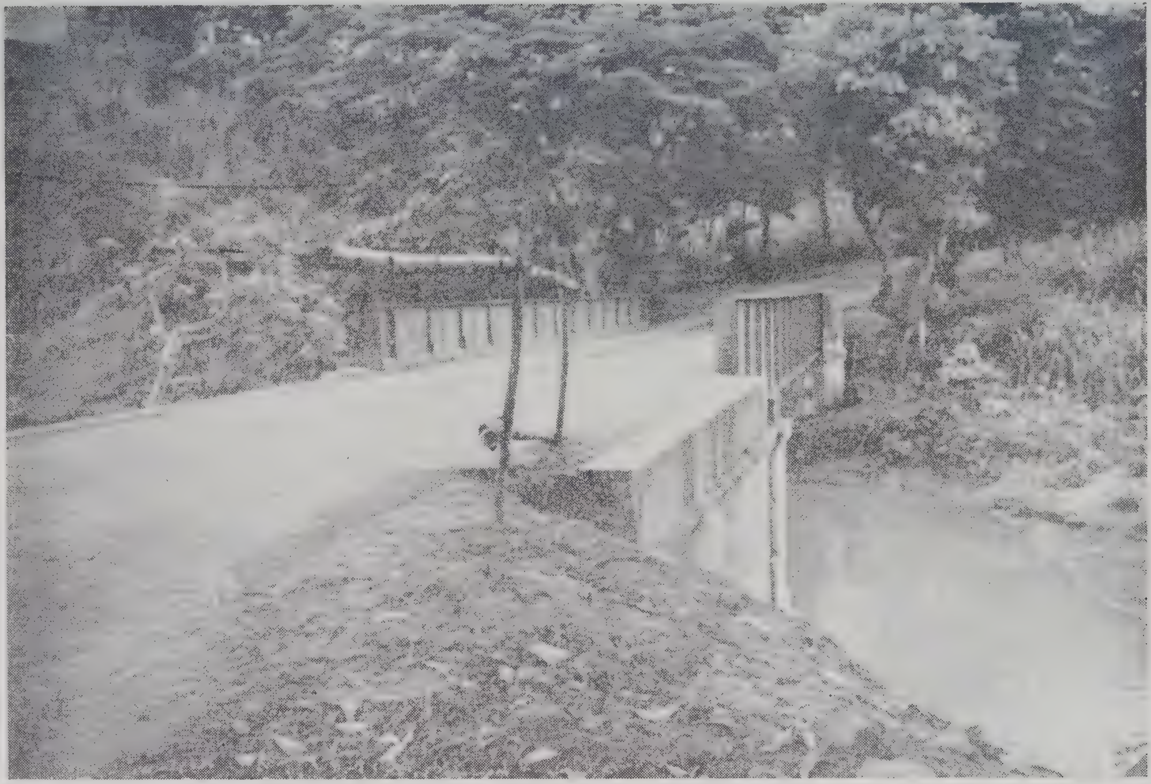
As expected, during this fiscal year and due to the scarcity of critical materials caused by the present emergency of war, highway construction activities in the Department of the Interior were greatly reduced; on the other hand, surveys and the preparation of plans far from being reduced were notably accelerated by the preparation of projects for postwar construction.

In fact, to the routinary work of surveys and the preparation of projects for highways, roads and bridges, which is ordinarily submitted to the consideration of this Division, among which are included those projects relative to the completion of the San Juan–Point Borinquen Road as well as those projects of secondary roads and highways prepared for the execution by the War Emergency Program, a new activity was added, which compelled us to increase the number of our survey parties so as to obtain the necessary field data for a postwar construction program amounting to $23,000,000. This construction program will be financed with combined insular and federal funds, under the basis of a bill now pending Congress's approval.

The projects included in this postwar construction program consist, mainly, in the construction of bypasses to the principal cities of the Island. Modern requirements for faster and safer traffic along our highways, have compelled us to give full consideration to the establishment of these bypasses, the location of which has brought forth a series of problems for each individual case, to which special attention has been given prior to the selection of the final alignment. The importance of these problems may be appreciated by a mere consideration of their different significances, as follows:

1. Topographic conditions of the zone.
2. Appraisement of property within the rights-of-way to be acquired.
3. Relocation of bridges.
4. Surveys of railroad crossing elimination projects.
5. Relocation of railroad tracks, etc. etc.

Undoubtedly, these proposed improvements will represent a good progress in the construction of the most important primary routes



OLD MASONRY BRIDGE OVER QUEBRADILLAS RIVER
New Reinforced Concrete Bridge to be Built
Estimated Cost, $100,000.
Insular Road No. 1. Km. 41.8.

in Puerto Rico, with the corresponding benefit to the traveling public.

In addition to these bypasses, the postwar program comprises other improvements, such as the relocation and widening of our insular highways and the construction of modern bridges to substitute those that result inadequate and obsolescent for present triffic.

Considering the importance and cost of these projects, satisfactory progress has been made, specially in our Survey Section, and we hope that within the coming fiscal year final plans will be ready for the construction of projects, included in this postwar construction program, amounting to approximately $10,000,000.

The pages that follow describe in detail the activities of the two sections of this Division.

SURVEY

Location surveys for bypasses, primary and municipal roads, to be constructed, the first two items as postwar projects and the latter by the War Emergency Program or the Insular Government, constituted, this year, the main activity of the division.

Higher standards of highway design, in which special attention has been given to the three principal features of alignment, grade and section, have been adopted in all cases. Good judgment has also been exercised in the acquisition of adequate rights-of-way as well as to the evaluation of scenic positions.

The following tables give a detailed information of the survey work performed during the year:

TABLE No. 1
SURVEY OF BYPASSES

Roads No.	Town	Length in Kilometers	
		Preliminary Survey	Final Survey
36	Guayanilla	13.493	6.542
2	San Germán	12,600	....
3	Carolina	1.276	2.426
2	Rincón	8.710	2.090
3	Guayama	2,491	5.479
2	Sabana Grande	1.540	2.960
2	Aguada	0.750	9.250
3	Salinas	6.842	....
2	Aguadilla	23.385	11.615
5	Gurabo	18.253	6.330
3	Yabucoa	3.690	6.760
5&28	Juncos	6.976	3.824
3	Santa Isabel	1.497	5.303
3	Patillas	5.521	5.979
1-2-3-6	Ponce	21.710	3.690
3	Maunabo	3.832	0.176
1.2 & 3	Río Piedras	1.368	9.214
1	Caguas	3.004	4.096
3	Humacao	7.829	0.508
	TOTAL	144.767	86.242

TABLE No. 2

SURVEY OF INSULAR ROADS

Road No.	Section	Length in Kilometers	
		Preliminary Survey	Final Survey
6	Adjuntas—Utuado, Km. 39.6–51.8	8.140	
6	Utuado—Arecibo, Km. 51.8–68.0	6.572	
1	Río Cañas Relocation, Km. 27.1	1.687	1.225
2	Section South of Rincón, Km. 171.2	0.610	16.317
36	Ponce West Section	3.064	4.142
28	Naguabo—Juncos Section "B"		2.106
2	Mayagüez (North Section)	24.500	4.000
1	Cayey—Aibonito	3.238	1,700
3	Carolina—Río Piedras	7.460	1.920
6	Arecibo—Dos Bocas Dam	14.136	6.474
2	Sábana Grande—Yauco Section	3.681	12.819
1	Río Piedras—La Muda Section		7.281
51	Ponce—Jayuya	5.020	2.380
15	Casa Blanca—Orocovis		0.363
62	Guayama—San Lorenzo—Patillas		0.672
	TOTALS	78.108	61.399

TABLE No. 3

SURVEY OF MUNICIPAL ROADS

Item No.	Road	Municipality	Length	Remarks
1	Río Grande	Morovis		Topography
2	San Antonio	Caguas	0.176	
3	Aceituna	Moca	1.780	
4	Cíenega Baja	Río Grande	1.972	
5	María Antonia	Gúanica	0.180	
6	Palmarejo	Coamo	2.032	
7	Boquillas	Manatí	0.139	
8	Viví Arriba	Utuado	1.126	
9	Limón	Utuado	7.103	
10	Toro Negro Forest	Jayuya	5.344	
11	Marueño	Ponce	1.318	
12	Cerro Gordo	Aguada	4.102	
	TOTALS		25.272	

BORINGS

In order to make economic design layouts and provide stable structures, it is indispensable to secure reliable test data on foundations. To this effect, the Department of the Interior has acquired and placed into service a medium size equipment unit to make test borings at sites for bridges, important retaining walls and culverts.

The following table gives a detailed information of the test borings drilled during this year.

TABLE No. 4

BORINGS

Road No.	Municipality	Stream	Lenght of Test Borings-Meters
2	Vega Baja	Cibuco	16.15
3	Humacao	Río Blanco	67.00
2	Manatí	Creek	14.54
28	Naguabo	Río Blanco	22.00
	TOTAL		119.69

TABLE No. 5

MISCELLANEOUS SURVEYS

TOPOGRAPHIC PLANS FOR THE ESTABLISHMRNT OF DISTRICT HOSPITALS

Municipality	Area Sq. Meters
Guayama	235,800
Mayagüez	167,025
Caguas	210,255
TOTAL	613,080

DESIGN

Due to the present emergency of war, design work during the first part of the year was confined mainly to secondary roads and some Insular highways, the construction of which was to be performed either by the War Emergency Program or by Administration with Insular Funds.

Revisions of designs, due to the scarcity of material for projects under construction, were also frequently made.

During the latter part of the year some field data for postwar projects was received and design work was renewed with an activity comparable to that of prewar years. The amount of design work produced has, nevertheless, been limited to some extent, because of the scarcity of technical personnel. Higher standards of design have been adopted in all the work done during the year. All supplementary features involved in highway design, such as cross-section, type of pavement, grade line, vertical curves, sight distance, superelevation of curves, etc., etc., have received very careful consideration.

Special attention has also been given to bridge and culvert design. Appreciable economy of materials has been obtained by the adoption of "U" or "Tied Back Abutments" for bridges. Unreinforced concrete arches have been frequently used for culverts and bridges.

The following tables give a detailed information of the design worked performed during the year.

TABLE No. 6

DESIGN AND PREPARATION OF PROJECTS FOR INSULAR HIGHWAYS

Road No.	Project	Section or Municipality	Length Km.	Estimate	Remarks
63	Bayamón-Aguas Buenas	Bayamón	1.81	$47,514.00	
1 and 5	Caguas Bypass	Caguas	1.49	132,000.00	Revised
1	Río Cañas Recolation	Caguas	1.22	131,856.00	
1	Stop 23-Martin Peña	San Juan	0.99	47,030.00	
1	Miramar-Stop 23	San Juan	2.67	190,690.00	
26	Florida-Utuado	Utuado	4.44	184,784.00	
	TOTAL		12.62	$733,874.00	

TABLE No. 7

DESIGN OF GRADE CROSSING ELIMINATION PROJECTS

Road No.	Project	Section or Municipality	Length Km.	Estimate	Remarks
2	SN. FAGH-11A (3)	Quebradillas	0.40	$67,269.80	Revised

TABLE No. 8

DESIGN OF MUNICIPAL ROADS

Item No.	Project	Section or Municipality	Length Km.	Estimate
1	Miraflores—Arrozal	Arecibo	3.00	$76,000.00
2	Llanos Tunas	Cabo Rojo	3.01	45,000.00
3	La Jagua	Caguas	2.63	44,390.00
4	San Antonio	Caguas	2.96	105,706.00
5	Canovanillas	Carolina	3.00	59,100.00
6	Cedro	Cayey	4.04	69,000.00
7	Ceiba SUR	Juncos	2.07	26,885.00
8	María Antonia	Guánica	2.32	31,000.00
9	Toro Negro	Jayuya	2.10	59,055.27
10	Indiera Alta	Maricao	1.08	16.000,00
11	Río Cañas	Mayagüez	4.00	65,000.00
12	Aceituna—Isabela	Moca	3.02	44,733.00
13	Muñoz Rivera	Patillas	6.18	123,600.00
14	Quebrada Arenas Saliente	Vega Baja	2.94	76,637.00
15	Río Arriba	Vega Baja	1.00	14,000.00
16	Aguas Blancas	Yauco	2.31	46,000.00
	TOTAL		45.66	$902,106.27

TABLE No. 9

DESIGN OF BRIDGES

Road No.	Project	Stream	Span Length Meters	Estimate	Remarks
73	Río Hondo Bridge	Río Hondo	18.00	$13, 703.00	
2	SN FAP 30 F (1)	Creek	27.00	31, 945.00	
2	SN FAP 30 E (1)	Cibuco	40.96	152, 929.00	Revised
	Los Cocos Sec. Road	La Plata	49.00	37, 608.00	
3	Río Blanco Prov. Bridge	Río Blanco	60.00	19, 155.00	
	TOTAL		194.96	$255, 340.00	

TABLE No. 10

MISCELLANEOUS PROJECTS

Road No.	Project	Steam	Estimate
1	Stabilization of river bed and protection of Caguitas river Bridge	Caguitas River	$25, 725.00
2	Improvement of channel and stabilization of river bed	La Plata River	60, 551.00
	TOTAL		$86, 276.00

As miscellaneous work, the Division has also revised plans, specifications and estimates of various road and bridge projects of private engineers, Insular Government Agencies and Municipalities, submitted to the approval of the Commissioner of the Interior; prepared estimates of highway improvements for the Puerto Rico Planning Board; prepared plans for the Land Authority, and given technical advise and cooperation to other divisions of the Department.

SUMMARY OF THE WORK PERFORMED

SURVEY

Item No.	Classification	Length Kms.
1	By passes	86, 242
2	Insular Roads	61.399
3	Municipal Roads	25.272
	Total	172.913

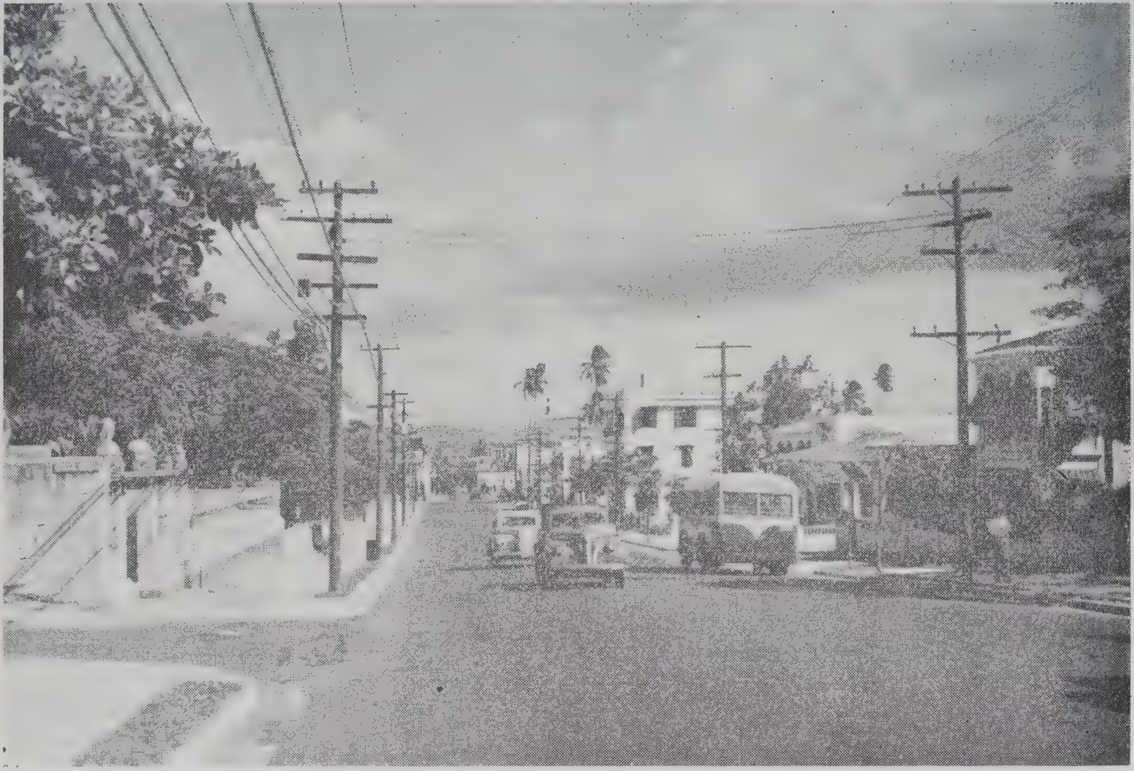
DESIGN

Item No.	Classification	Length Kms.	Estimate
1	Insular Roads	12.62	$733, 874.00
2	Railroad Crossing Elimination Projects	0.40	67, 269.80
3	Municipal Roads	45.66	902, 106.27
4	Bridges	0.19	255, 340.00
5	Miscellaneous Projects		86, 276.00
	Total	58.87	$2,044,866.07

EXPENDITURES

The total expenditures during this year are given in the following table. These expenditures include also cost of preliminary and final surveys, the estimates of which do not appear as design work this year due to the fact that plans are under preparation. Estimates for these projects, amounting to several millions dollars, will be included as design work in the coming fiscal year report.

Item No.	Classification	Expenditure
1	Survey Section	$169,616.91
2	Design Section	72,912.97
3	Equipment, Materials and Miscellaneous Expenses	10,604.90
	Total Expenditures	$253,134.78



STREET WIDENING AND IMPROVEMENT WORKS
Ponce de León Avenue, Stops 23 to 27.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
W. P. A. and Interior.

DIVISION OF CONSTRUCTION AND INSPECTION

During the fiscal year 1943–44, the Division of Highway and Bridge Construction continued work by force account and contract on projects started in previous years. New projects were also undertaken. By this time the War Production Board had developed a full system of priorities, allotments and orders controlling critical materials and construction equipment. Before work could be started, authorization to begin construction had to be obtained from the local or Washington, D.C., offices. In many cases we had to wait five or more weeks before approval was received. This inconvenience was not, by far, the worst, since the shortage of lumber and maritime space to bring down materials from Continental United States created a very difficult situation. Nevertheless, work was not totally discontinued since we made use of whatever amounts of scarce materials that could be found locally. Yet, we were again to encounter another difficulty: that of transporting materials to the sites of construction. Interruptions of this kind caused loss of time and increased costs.

War Production Board authorizations for construction projects had to be amended in many cases, through new applications, as they bear a fixed date of completion and the work could not be terminated on time, inasmuch as the above mentioned interruptions caused unexpected delays.

Although war prices to be paid for forge and foundry products needed, we were able to obtain them, thus aiding us somewhat against breakage of machinery parts, in the prosecution of construction work. Structural shapes could also be obtained in small quantities from the same sources from which forge and foundry products were obtained.

Nevertheless, work proceeded in spite of all these obstacles, and some of the projects were successfully completed.

DIVISION OF CONSTRUCTION AND INSPECTION

The fiscal year ending June 30, 1943, left ten projects under construction. To these, four new projects by contract and two by force account were added. By the end of the fiscal year under report, eleven projects had been finished and five were still under way.

Delays in construction were noticeable and due mainly to the difficulty in obtaining materials, fuel and repair parts as sequel to the present emergency.

Detail information regarding these contracts follows:

FEDERAL AID PROJECTS

SN–F.A.P. 27B (1)—Bayamón–Vega Alta Road—2.21 Kms.
Contractor: Arturo Rivera Gómez.

Contract Price: $183,200.50, increased to	$193,817.55
Inspection Paid	12,692.56
Right of Way purchased	10,257.80
Total Federal-aid received for this project	139,675.58

Date of completion, October 11, 1943.

SN–F.A.P. 27 A (1)—Bayamón–Vega Alta Road–La Plata River Bridge.
Contractor: Raúl Gayá Benejam.

Contract Price: $255,075.50, increased to	$325,143.51
Inspection Paid	17,781.79
Right of Way purchased	3,796.00
Federal-aid received to this date for this project	184,648.20

This project was provisionally accepted on January 21, 1944. Final acceptance is pending due to defects on the roadway construction.

SN–F.A.P. 27–C (1)—Bayamón–Vega Alta Road—5.2749 Kms.
Contractor: Gabriel Rexach Gómez.

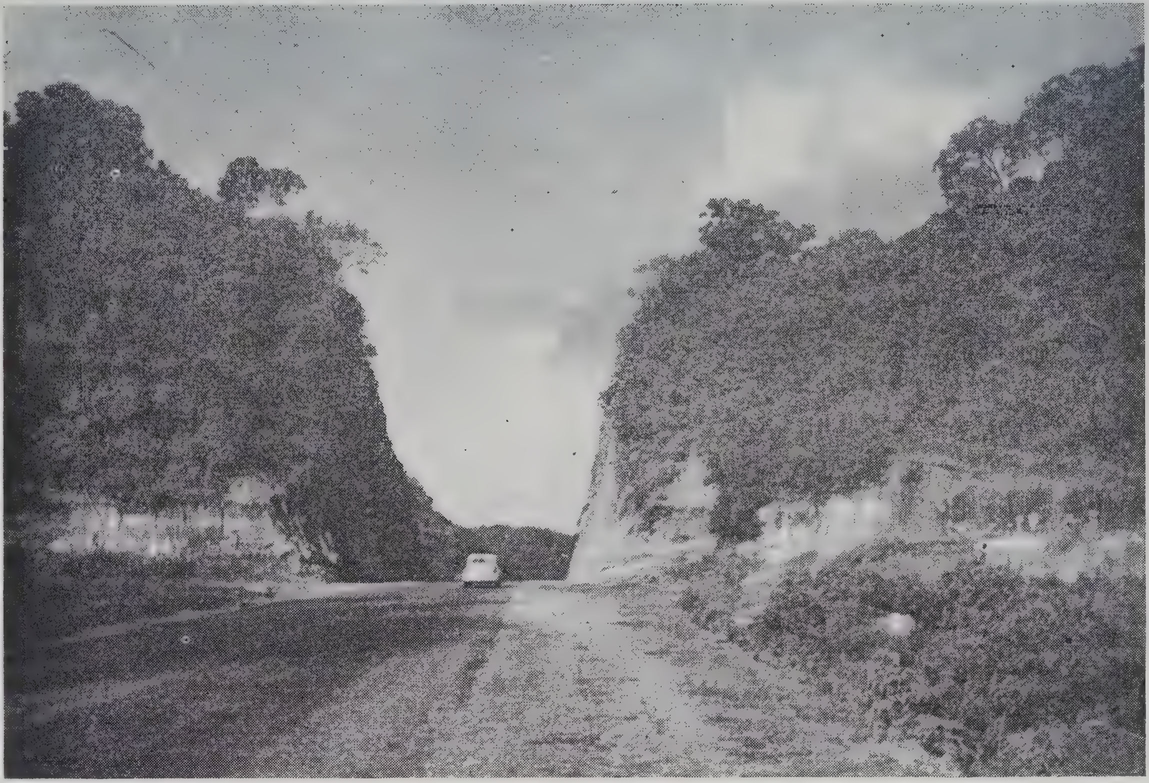
Contract Price: $194,731.50, increased to	$230,672.35
Inspection Paid	11,047.53
Right of Way purchased	39,924.51
Total Federal-aid received for this project	157,798.98

Date of completion, April 27, 1944.

SN–F.A.P. 28 A (1)—Río Piedras–La Muda Road—2.928 Kms.
Contractor: Adolfo Mussenden.

Contract Price: $196,516.50 increased to	$230,568.40
Inspection Paid	19,108.50
Right of Way purchased	58,292.36
Total Federal-aid received for this project	145,000.00

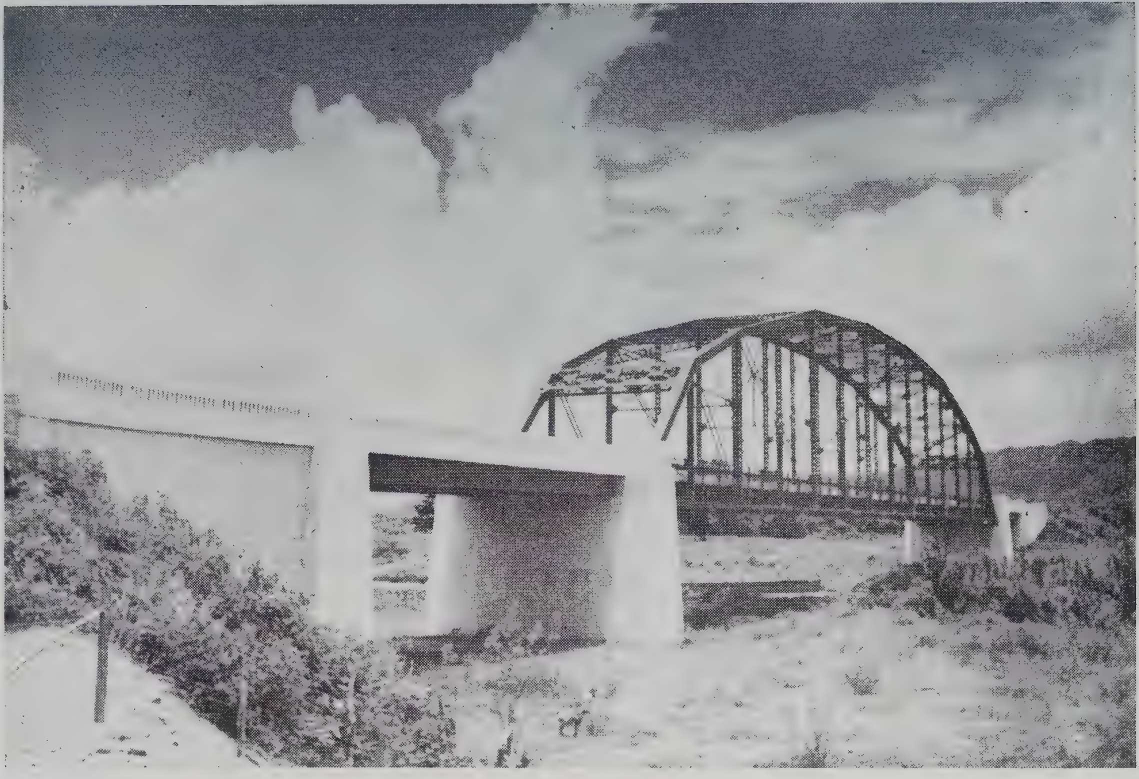
Date of completion, April 27, 1944.



THOROUGH CUT ON RELOCATION AT ''CANDELARIA'' WARD
Insular Road No. 2.—Km. 24.0.

Sergio Cuevas Bustamante,
Commissioner.

Arturo Rivera, Contractor—
Federal and Insular Funds.



AÑASCO RIVER BRIDGE
One Metallic Span and Two of Reinforced Concrete.
Insular Road No. 2.—Km. 176.4.
Completed February, 1944.—Cost $196,711.87.

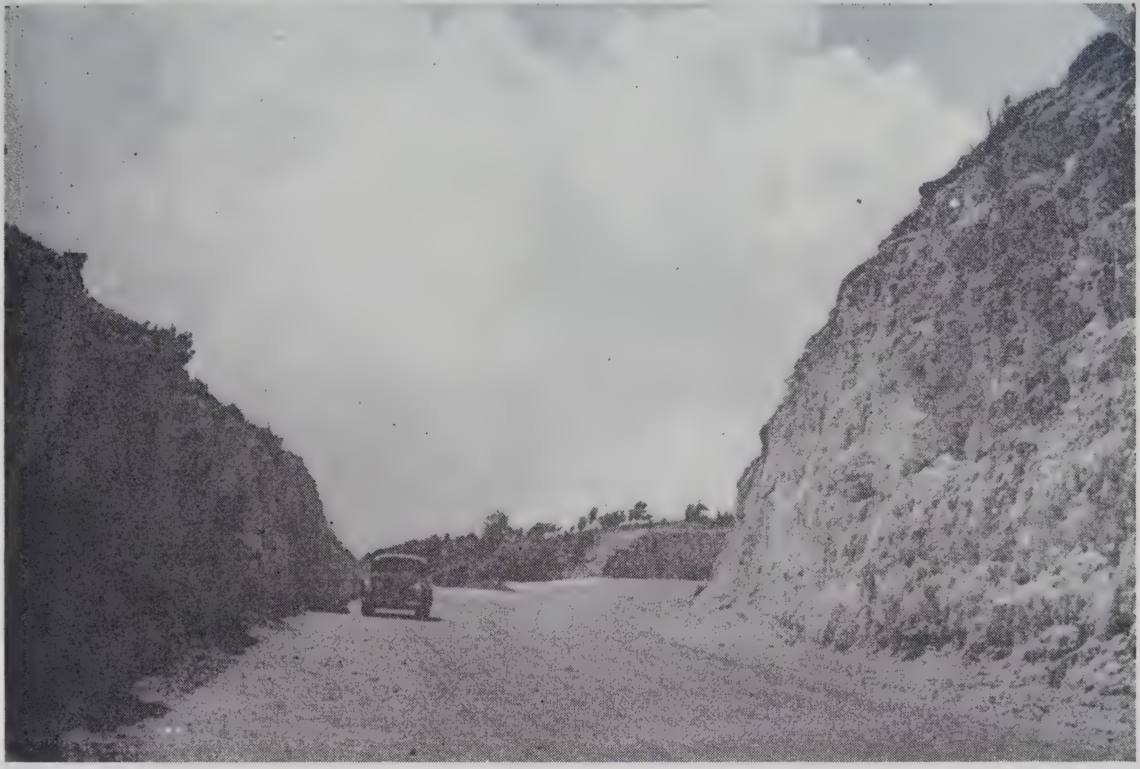
Sergio Cuevas Bustamante,
Commissioner.

Completed by Administration—
Federal and Insular Funds.

REINFORCED CONCRETE BRIDGE OVER BAYAMON RIVER
Insular Road No. 2.—Km. 9.5.
Completed April, 1944.—Cost $166,930.81.

Sergio Cuevas Bustamante,
Commissioner.

Vicente Quilichini, Contractor—
Federal and Insular Funds.



THOROUGH CUT ON QUEBRADILLAS BYPASS
Insular Road No. 2.—Km. 101.5.

Sergio Cuevas Bustamante,
Commissioner.

Enrique Báez, Contractor.—
Federal and Insular Funds.

F.A.P. 3 A (1)—Mayagüez–Rincón Road–Añasco River Bridge.
Contractor: Tomás Carro.

Contract Price: $197,362.25 increased to	$222,910.12
Amount paid to the Contractor up to December 22, 1942	157,741.01

This contract was taken over January 14, 1943, in accordance with Article 7 of the Special Provisions of the contract, to be finished by force account, but due to a civil action brought up by the contractor, the construction was stopped until November 1, 1943.

Force account expenditures chargeable to this project were	$65,169.11
Total inspection paid including contractor's time	20,027.87
Federal-aid received to this date for this project	81,101.25

Date of completion, February 29, 1944.

F.A.G.H. 3 B (1)—Mayagüez–Añasco Road—Grade Crossing Road over railroad.
Contractor: Adolfo Mussenden.

Contract Price: $107,819.50 increased to	$168,058.06
Amount paid to the contractor up to December 5, 1941	68,072.00

This contract was taken over to be completed by force account. The contractor did not contend the action of the Commissioner of the Interior.

Force account expenditures chargeable to this project were	$99,986.06
Inspection paid up to December 5, 1941	8,261.66
Right of Way purchased	680.00
Federal-aid received to this date for this project	101,523.00

This project was completed on February 29, 1944 and the liquidation payment was made on June 30, 1944.

F.A.P. 5 C (1)—San Sebastián–Añasco Road—2.65 Kms.
Contractor: Hiram Forestier.

Contract Price: $52,132 increased to	$62,735.25
Amount Paid to the contractor up to June 23, 1940	37,004.00
Total inspection paid including contractor's time	14,024.91
Federal-aid received to this date for this project	20,596.00

In accordance with the contract Mr. Hiram Forestier would complete this project on March 2, 1940, but he abandoned the work before completion. The contract was liquidated on June 23, 1940. A penalty of 10 per cent of the original estimate of the project was imposed to the bondsmen of Mr. Forestier and the project was scheduled to be performed by force account.

On July 12, 1943 the work was renewed and it was completed on May 19, 1944. All charges to this project were liquidated by June 30, 1944.

SN–F.A.P. 8F (1)—Santurce–Bayamón Road–Bayamón River Bridge.
Contractor: Vicente Quilichini.

Contract Price: $182,370.25 reduced to	$166,930.81
Inspection Paid	17,277.11
Federal-aid received to this date for this project	87,056.55

This project was provisionally accepted on April 10, 1944. Liquidation will be made four months after that date.

SN–F.A.P. 11D (1)—Quebradillas–Isabela Road—2.3641 Kms.
Contractor: Enrique Báez.

Contract Price: $229,804 reduced to	$222,160.00
Amount paid to the contractor up to June 7, 1944	219,603.22
Value of work pending construction	2,556.78
Inspection paid to date	14,872.28
Right of way purchased	10,916.12
Federal-aid received to date for this project	120,369.21

This project is practically completed.

SN–F.A.P. 11B (1)—Quebradillas–Isabela Road—1.04 Kms.
Contractor: Genaro J. del Valle.

Contract Price: $115,913.80 increased to	$189,402.48
Amount paid to the contractor up to June 30, 1944	138,975.44
Value of work pending construction	50,427.04
Inspection Paid	7,862.50
Right of Way purchased	551.00
Federal-aid received to this date for this project	52,313.00

The delay in the construction of this project is due to the late arrival of the structural steel and the poor condition of the sub-soil which has required a larger volume of earth embankment.

SN–F.A.G. 11C (1)—Quebradillas–Isabela Road—Grade Crossing Road over Railroad.
Contractor: Genaro J. del Valle.

Contract Price: $102,026, increased to	$115,474.26
Amount paid to the contractor up to this date	107,961.58
Value of work pending construction	7,512.68
Inspection Paid	7,714.26
Right of Way purchased	376.40
Federal-aid received to this date for this project	61,308.00

The ruling conditions of SN–F.A.P. 11B (1) apply to this project.

F.A.G.H. 11A (3)—Quebradillas–Isabela Road—Grade Crossing Road over railroad.

Contractor: Genaro J. del Valle.

Contract Price: $52,601.60 increased to	$53,951.60
Value of work performed to June 30	52,003.09
Value of work pending construction	1,948.51
Inspection Paid	1,907.17
Federal-aid accrued to this date	45,937.40

This project is practically completed.

F.A.G.H. 25A (2)—Quebradillas–Isabela—Grade Crossing.

This project was constructed by force account by the U. S. Engineering Department, being financed by the Public Roads Administration thru the Insular Department of the Interior. The total cost of this project, including SN–F.A.P. 25A (2)—Roadway Section, was $195,607.65, but the Federal-aid accrued to this date totals $73,770.00

Overhead charges paid by this Department, including Right of Way purchased	$2,351.58

Date of completion, October 21, 1943.

Amount to be reimbursed to the U.S.E.D. was fixed at	$73,700.00

SN–F.A.P. 25A (3)—Quebradillas–Isabela Road—4.953 Kms.

This project was constructed by the U.S.E.D., financed by the Public Roads Administration and the Insular Department of the Interior. The share of Federal funds for this project is $27,833.66, and $9,617.72 of the Insular Government. Date of completion October 21, 1943.

SN–F.A.P. 30E (1)—Vega Alta–Barceloneta Road—Manatí River Bridge.

Contractor: Andrés San Miguel.

Contract Price: $27,089.75.

The bids for the construction of this project were opened June 29, 1944 and Mr. Andrés San Miguel was considered the best bidder. No work can be reported on this date.

Projects Totally Financed With Insular Funds

Carrizal Secondary Road–Aguada—5.41884 Kms.

Contractor: Caribbean Engineering Company.

Contract Price: $53,512.50 increased to	$57,276.56

This contract was rescinded February 26, 1943 by mutual consent. After paying to the contractor the work performed to that date and buying the equipment in place, the Department of the Interior proceeded to finish the project by force account.

Amount paid to the Contractor	$38,968.32
Force account expenditures	18,308.24
Inspection paid including contractor's time	6,607.09
Right of Way purchased	7,118.10

Date of completion May 19, 1944. The liquidation was delayed until June 30, 1944.

Bayamón–Aguas Buenas Road—Insular Secondary Road No. 63—1.815 Kms.
Contractor: Vicente P. Valdivieso, Jr.

Contract Price: $44,649.60, increased to	$52,794.60
Value of work performed to June 30, 1944	33,536.41
Value of work pending construction	19,258.19
Inspection paid	3,307.16
Right of Way purchased	512.00

Judging from the work performed in this project to this date, the contract will be finished on schedule.

PROJECTS UNDER CONSTRUCTION BY FORCE ACCOUNT WITH THE AID OF THE WORK PROYECTS ADMINISTRATION AND WAR EMERGENCY PROGRAM

The construction of the six projects, the detail of which follows, has been active during the present fiscal year. They were initiated by the federal agency W.P.A. and turned over to the W.E.P., after the closing of operations of the first agency. Two of these projects have been completed, the remainder are under active construction by the W.E.P.

F.A.P. 9 Section II—Barceloneta–Hatillo Road—10.7119 Kms.

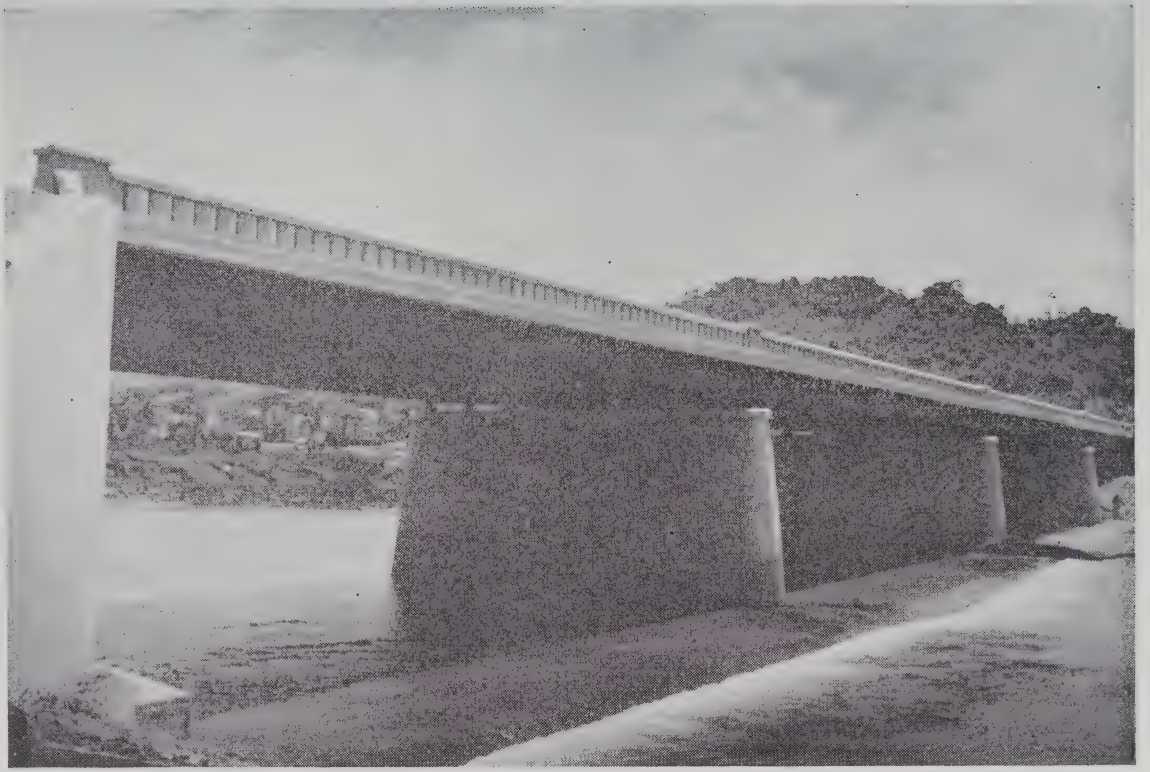
This project was finished during this fiscal year.

Materials and Inspection paid prior to June 30, 1943	$105,175.08	
During this fiscal year	15,995.26	
		$121,170.34
Right of Way purchased prior to June 30, 1943	$22,971.36	
During this fiscal year	2,284.33	
		25,255.69

F.A.P. 25 Section 1—Hatillo–Quebradillas Road—9.25 Kms.

This project was finished during this fiscal year.

Materials and Inspection paid prior to June 30, 1943	$31,266.83	
During this fiscal year	12,625.02	
		$43,891.85
Right of Way purchased prior to June 30, 1943	$29,031.68	
During this fiscal year	2,518.70	
		31,550.38



CONCRETE SLAB PROTECTION TO FOUNDATIONS
''Reyes Católicos'' Bridge over ''La Plata'' River.
Insular Road No. 2.—Km. 25.5.

Sergio Cuevas Bustamante,
Commissioner.

Force Account Work—
W.E.P. and Interior Funds.

F.A.P. 9 Section 1—Barceloneta Road—8.7036 Kms.

This project is nearing completion.

Materials and Inspection paid prior to June 30, 1943	$50, 093. 73	
During this fiscal year	16, 590. 44	
		$66, 684. 17
Right of Way purchased prior to June 30, 1943	$58, 976. 60	
During this fiscal year	5, 627. 15	
		64, 603. 75

F.A.P. 30-A (1); 30-B (1) and 30-D (1) Vega Alta--Vega Baja Road—6.477 Kms.

These three projects are considered as one unit of construction due to the fact of their contiguity. Its construction was initiated this fiscal year and we estimate that 40 per cent of the work has been completed on this date.

Value of Materials and Inspection furnished to June 30, 1944	$4, 206. 22
Right of Way purchased	11, 141. 45

LOÍZA STREET–MUNICIPALITY OF SAN JUAN

Landscaping, widening and road betterments of the Loíza Street were initiated early in August, 1943, by the Work Projects Administration under the sponsorship of this Department.

The construction was continued with Insular Funds solely, from November, 1943 to February, 1944, due to the suspension of the Federal Agency W.P.A., and on this latter date the War Emergency Program continued the project assuming this Department the sponsor's share.

The widening, paving and fence work of the project have been completed, except pavement of the small section between José de Diego Avenue and "Parque" Street. Finishing touches to houses affected by the widening of the street are under way. The expenditures of the sponsor, including materials, inspection and right of way purchased, total $130,690.14.

Landscaping of Insular Highway No. 2 was initiated by the W.E.P. in February, acting as sponsor this Department. Provisions were made to use native marble to embellish this highway. The expenditures of the sponsor to June 30, 1944, total $12,846.71.

The construction of SN–FAP 8F Bayamón River Bridge, brought some changes in the alignment of Insular Highway No. 2, in Bayamón, including the approaches of the new bridge. To take care of this necessary betterment the WPA assigned funds which the Department of the Interior matched as sponsor. When the WPA ceased in November, the WEP proceeded to continue the construction of the approaches. On this date this work is nearing completion.

The expenditures of the sponsor total $11,352.32 in June 30, 1944.

To project the recently constructed La Plata River Bridge, a project of betterment of the channel of the river was initiated by the WEP, which included the widening of channel and the construction of a reinforced concrete slab to protect the foundations.

The expenditures of the sponsor on this date are $6,202.32.

The Executive Council approved a loan from the emergency fund to continue certain public work betterments which in June 1st., were out of funds. To match this loan the Department of the Interior transferred $103,300 from the moneys set aside for the projects Loíza Street, Guavate Secondary Road, Vega Alta–Vega Baja Road, approaches Bayamón River Bridge, Landscaping of Insular Highway No. 2, Program of Secondary Roads with WEP funds and Betterment of La Plata River Channel to meet the current expentures during the month of June.

These funds were expended as scheduled.

PROGRAM OF SECONDARY ROADS

Graphic detail is presented to cover the work performed in the different projects of secondary roads under construction.

The program of secondary roads of this year was financed by different federal and insular agencies, acting as sponsor the Department of the Interior.

The classifification by group of projects is as follows:

I.—*W.P.A. Projects:*
  Palo Hincado–Barranquitas.
  Central–Maunabo.
  Rancheras–Yauco.
  Tallaboa–Peñuelas.
  Rucio–Peñuelas.
  Espino–Lares.
  Pasto–Morovis.

- Sierra Baja–Guayanilla.
- Maví–Río Grande.
- Hato Nuevo–Guaynabo.
- Perchas–San Sebastián.

II.—*W.P.A. and W.E.P. Projects:*
- Minillas–Bayamón.
- Barros–Hormigueros.

III.—*W.P.A., W.P.E. and Force Account:*
- Palos Blancos–Corozal.
- Quebradillas–Barranquitas.
- Cortés–Manatí.
- Rosario–Mayagüez.

IV.—*W.P.E. and Force Account:*
- Tanamá–Adjuntas.
- Aibonito–Cayey–Salinas–Aibonito.
- Rabanales–Cidra.
- Pulguillas–Coamo.
- Coabey–Jayuya.
- Sabana Grande–Maricao–Sabana Grande.

V.—*W.E.P. Projects:*
- Quebrada Infierno.
- Guavate.

The following projects were financed exclusively with Insular Funds:

- Loíza–Juncos Road–Canóvanas.
- Cerro Gordo–San Lorenzo.
- Montones–Las Piedras.
- Llanos Tuna–Cabo Rojo.
- Cercadillo–Cayey.
- Aguas Buenas–Cidra–Aguas Buenas.
- La Prieta–Comerío.
- Caín Alto–San Germán.

STATEMENT OF RECEIPTS AND EXPENDITURES

APPROPRIATED

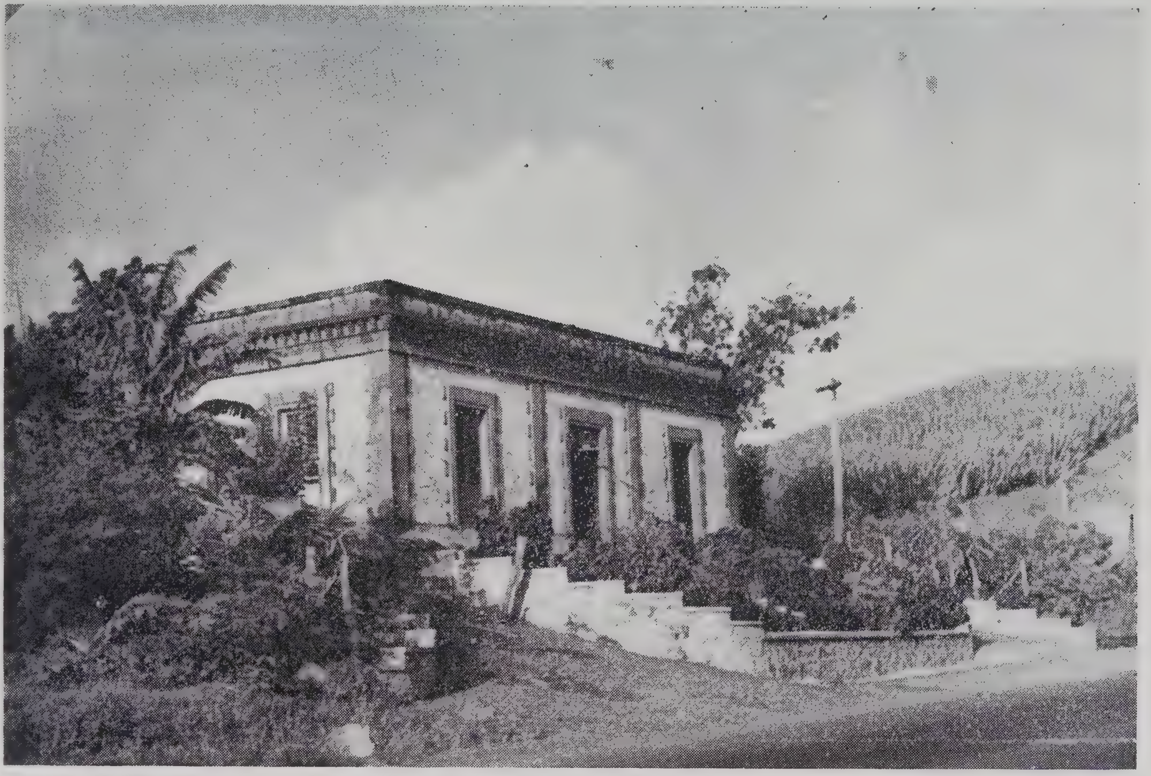
Balance as of July 1st, 1943	$1,166,693.09
Federal Reimbursements	441,167.89
Federal Funds Matches	215,000.00
Insular Projects	325,250.00
Sponsor W.P.A. Projects	87,500.00
Sponsor W.E.P. Projects	213,400.00
Inspection and Contingencies	291,534.38
Right of Way	130,000.00
Total	$2,870,545.36

EXPENDITURES

Contract payments	$827,627.67
Insular Roads	373,931.19
W.P.A. and W.E.P. Projects	224,018.23
Reconstruction of Loíza Street	91,295.00
Inspection and contingencies	291,534.38
Right of Way Purchased	148,929.40
Emergency Projects	103,300.00
Total	$2,060,635.87

At the close of business on June 30, 1944, the outstanding debts and contingent liabilities totalled $129,147.01.

This sum includes contract payments, force account materials and purchases thru Insular Procurement Office.



ROADMENDER BLOCK STONE HOUSE
Built Under the Spanish Regime.
Insular Road No. 2. Km. 13.4.

DIVISION OF MAINTENANCE AND REPAIR OF HIGHWAYS, ROADS AND BRIDGES

The principal function of the Division of Maintenance and Repair of Highways, Roads and Bridges is to preserve and maintain the insular roads and bridges in the best possible conditions at all times, so as to provide safe and satisfactory transportation. Due to war restrictions, the Maintenance Division encountered great difficulties in the development of its function throughout the fiscal year 1943–1944.

Funds for the Division are obtained, mostly, from the proceeds of a 7½ cents per gallon tax on gasoline imported for consumption in the island. Due to the rationing of gasoline and tires, the proceeds of this tax were considerably reduced during the year, thus affecting the availability of funds for maintenance work. The close restriction imposed on the purchase of equipment and critical materials, which are so essential for the upkeep and repair of road surfaces and structures, also curtailed to a great extent the maintenance activities.

During the last two years the maintenance of highway facilities has not only been of benefit to civil transportation but of great value to the war effort, by offering facilities for the uninterrupted movement of materials and equipment for military purposes. The maintenance work was carried out as best as possible under existing conditions, but the increase of military traffic, coupled to inadequate maintenance due to lack of funds and necessary materials and equipment, affected the maintenance activities to such extent that large sums of money will be needed in future years for the upkeep and repair of roads and road structures, as well as for the complete reconstruction of those that have been deferred in favor of others that were considered essential to the war effort.

At the beginning of the fiscal year just ended, the maintenance field organization was reorganized by establishing eleven district offices instead of seven as had been in operation on previous years. These offices are located at the following towns: Río Piedras, Manatí, Isabela, Mayagüez, San Germán, Ponce, Guayama, Humacao, Loíza, Barranquitas and Utuado. Each district office is under the direction of a civil engineer who is responsible, to the Engineer Director of Maintenance, of all activities within his district. The district field force consists of: roadmenders, to each of whom is assigned the maintenance work of a section of road about three kilometers in length, and road foremen, each of whom has direct supervision of nine to ten roadmenders and is responsible to the district engineer for all maintenance activities within the sections of roads assigned to him. This new organization has proved to be very effective, for it offers a better direction and closer supervision of all the activities in each district. At present there are 3,040.7 kilometers of roads under maintenance. Table No. 1 shows the number of kilometers of road under maintenance in each district . Of this total length of roads under maintenance, 2869.1 kilometers have been treated with asphalt up to June 30, 1944.

The total sum of $1,904,095.76 was expended by the Highway Maintenance Division during the year just ended. Of this amount, $1,832,756.77 were obtained, in part, from the proceeds of the gasoline tax, the sales of automobile licenses, and also from loan granted from ordinary funds of the Insular Treasury. The sum of $14,379.33 was the income derived from the rental of equipment to contractors and municipalities and from other miscellaneous transactions. The balance of $56,959.66 corresponds to the value of 373,506 gallons of asphalt charged against last year's appropriation, but which were disposed off during the fiscal year 1943–1944. The total sum of $1,904,095.76 was expended as follows:

1. Proper road maintenance expenses	$1, 418, 417. 06 *
2. Extraordinary maintenance expenses, (improvements and new constructions)	212, 681. 26
3. Removal of landslides	115, 956. 79
4. Miscellaneous expenses (unallocated)	41, 489. 37
5. Landscaping and traffic control	7, 341. 81
6. Asphalt on hand as of June 30, 1944	108, 209. 47
Total	$1, 904, 095. 76

Proper road maintenance expenses include all expenditures incurred during the year for the upkeep of wearing surface, road houses, structures, shoulders, ditches; the grubbing and cleaning of vegetation; minor repairs to structures and roadways as well as the purchasing, upkeep and repair of maintenance tools and equipment. The maintenance, average cost per kilometer of road during the year, amounted to $466.48.

Extraordinary maintenance expenses include the expenditures in new constructions, reconstructions, improvements, aditions and mayor repairs to the roadways and structures. The Commissioner of the

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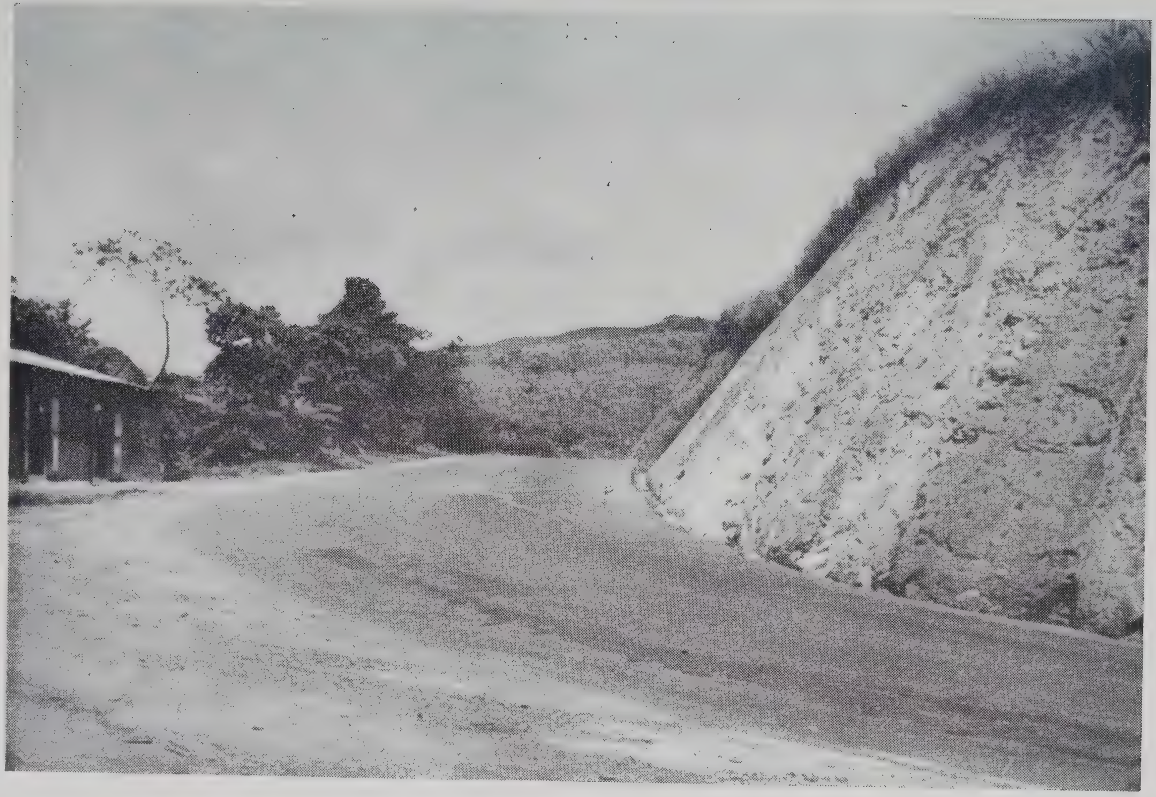
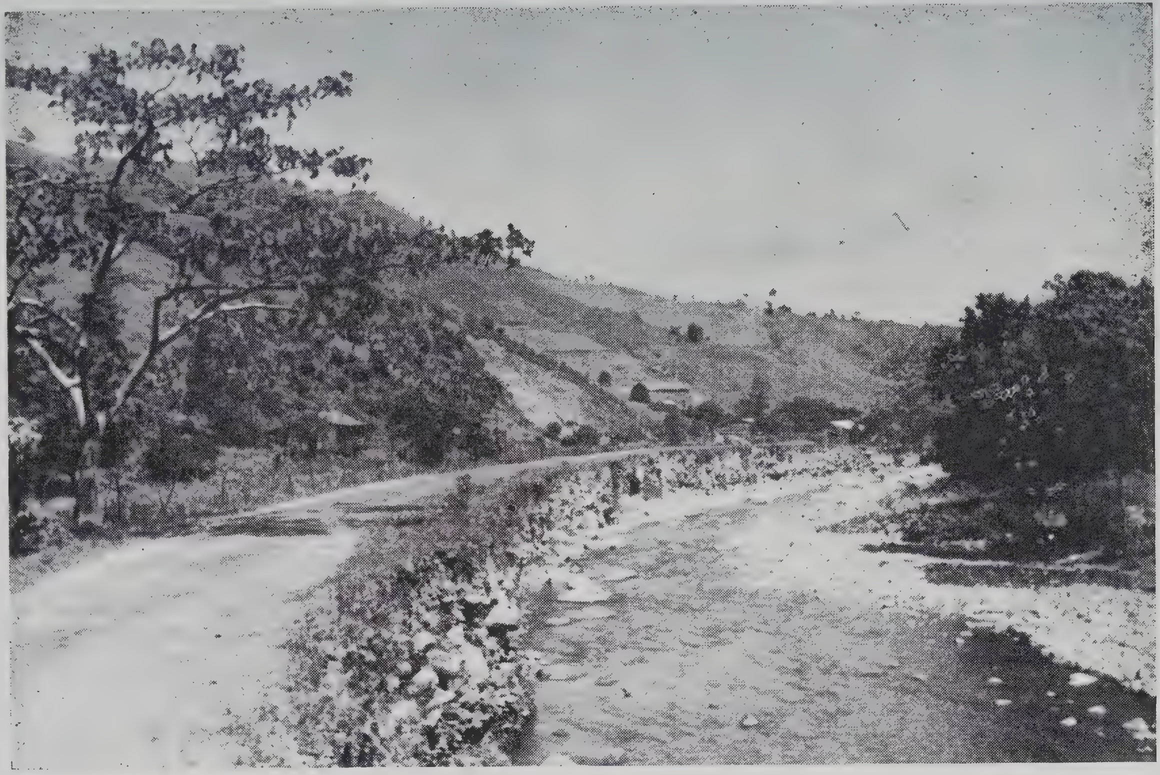
* Includes value of asphalt on hand at the beginning of the year.



IMPROVEMENTS AND CURVE WIDENING
Insular Road No. 1.—Km. 45.5.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.



BORINQUEN SECONDARY ROAD, KM. 4.5 TO 4.8.
Depicting Erosive Action of Turabo River Floods.

Interior controls, through his authorization, the performance of all extraordinary maintenance project. To realize these projects extra laborers and skilled personnel were employed under the direct supervision of the corresponding District Engineer.

The excessive, heavy rainfalls which occurred during the months of October and November and again at the end of the fiscal year, caused great damages to, and numerous landslides on our roads. These damages were more severe in the mountainous regions of the island, and greatly affected the districts of Mayagüez, San Germán, Barranquitas, Utuado, Guayama and Humacao. For the removal of landslides and the cleaning of roads, extra labor had to be hired at a total cost of $115,956.79.

During this year special attention has been given to the maintenance and repairing of bridges, specially those which, due to their many years in service and lack of proper maintenance, were badly deteriorating. Impact received by structural members of bridges from military trucks, trailers and loads have caused serious damages to our bridges. Among the most important bridges which were repaired, or are still under repair or construction, are the following:

1. Steel bridge over La Plata River at Cayey.
2. Steel bridge over Manatí River at Manatí.
3. Steel bridge over Manatí River at Ciales.
4. Steel bridge over the Guajataca River at Quebradillas.
5. Steel bridge over the Río Grande River at Carolina.
6. Construction of a temporary wooden bridge over Río Blanco River at Humacao Playa.

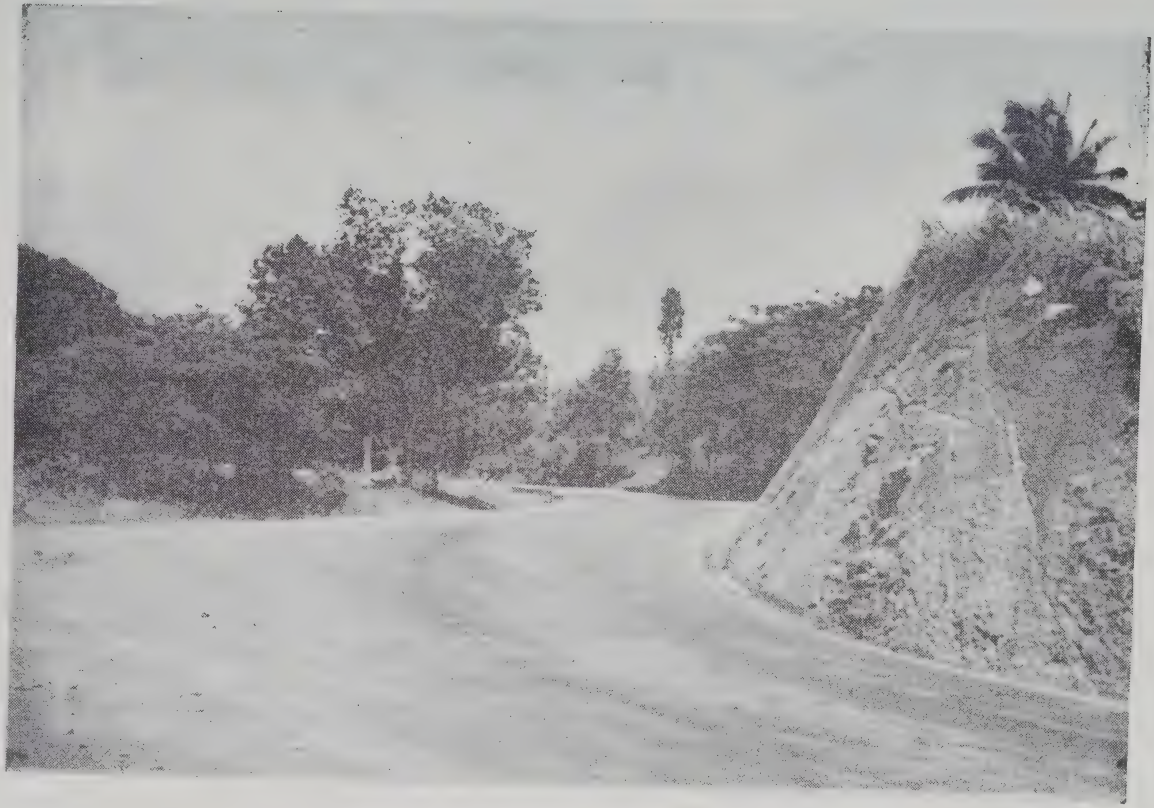
The Island Wide Project for the widening and improvement of curves and roads, which had been in progress during previous years, was continued, in cooperation with the Work Projects Administration, up to November 30, 1943, date in which that Agency ceased operating in the Island. On work that had been started and was not completely finished by November 30, 1943, the Road Maintenance Division had to spend the sum of $20,680.76, paving and asphalting those sections of roads where this work was most necessary. Large sums of money will be necessary for the completion of all works started under the above mentioned project.

During this year the Road Maintenance Division had charge of several projects which were carried out with funds specially assigned for the purpose, but which were placed under the direction and supervision of the Maintenance Division. A stretch of road about 2.9 kilometers, leading from kilometer 51.2 of road No. 1, near Cayey, to Guavate Ward, was constructed by the Maintenance Division at a total cost of $53,405.66. This road leads to a hospital established by the Military Authorities and the Insular Health Department, for the treatment of venereal diseases.

The following municipal roads were also repaired and asphalted with special funds assigned to the Maintenance Division for the purpose:

Factor–Garrochales, Arecibo.
Candelaria–Sabana Hoyo, Arecibo.
Ceiba–Florida, Barceloneta
Barceloneta–Palmas Altas, Arecibo.
Las Marías–Herrerías, Las Marías.
Naranjo–Aguada.
Las Coles–Loíza.

On this work a total sum of $57,746.70, of the funds assigned, was expended.



IMPROVEMENTS AND CURVE WIDENING
Insular Road No. 1.—Km. 47.0.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.

DAMAGES CAUSED TO HIGHWAYS AND STRUCTURES BY TROPICAL STORM THAT PASSED CLOSE TO THE ISLAND OCTOBER 14 AND 15, 1943

As a result of this tropical storm, heavy rains and strong winds were felt all over the Island, specially so on the southwestern part, which caused considerable damage to private and public properties. Among these damages the following are worthy of mention:

On Road No. 2, Manatí–Barceloneta Section, Km. 59.7, the unusually heavy flood of the Manatí River undermined and completely destroyed a reinforced concrete culvert that had been constructed recently by the Work Project Administration (W.P.A.). Traffic was interrupted until October 18, 1943.

On the Añasco–Mayagüez Section, the temporary timber bridge constructed over the Añasco River, was washed out, and traffic was interrupted until a barge service was established, and later on substituted with a pontoon bridge put up by the Army engineers.

On the Monte Bello–Florida branch, a timber bridge was badly damaged and traffic interrupted until October 21, 1943.

On Road No. 7, Caguas–San Lorenzo Section, the flood of the Caguas River washed out the earth embankment on the Caguas side of the bridge, interrupting traffic until October 16, 1943.

On Road No. 28, Km. 7.7, a retaining wall of the bridge over ‘‘Río Blanco’’ was destroyed, and part of the earth embankment washed away.

On Road No. 3, Km. 72.2, the foundations of some of the piers of the reinforced concrete bridge over Río Blanco’’ yielded, making traffic over the bridge difficult and dangerous. For this reason the Department had to build a provisional timber bridge.

On Road No. 3, Km. 166.0, the flood of the Salinas River washed away completely a section of the road, 75 meters in length, and it was necessary to relocate about 136 meters of said road.

At Km. 178.6, of same Road No. 3, Santa Isabel–Ponce Section, the Coamo River damaged about 20 meters of the road, and 8 meters of the earth embankment of the Velázquez River Crossing. Traffic was interrupted for a few hours.

At Km. 181.7 of same road, the Descalabrado River undermined the earth embankment on the Ponce side of the bridge. And at Km. 193.4, the Inabón River washed away half of the width of the wearing surface, in a length of 50 meters, and drifted away the retaining wall that had been constructed.

On Road No. 11, Km. 51.2, Ciales–Villalba Section, a crevice 75 meters long, across the road, interrupted traffic for some time.

Besides, these heavy rains caused many landslides, specially on the roads of the western part of the Island; many trees fell down, and the telephone and telegraph lines suffered considerable damages.

It is estimated that damages caused by the storm to the highways and bridges reached to $150,000.

TABLE NO. 1

ROADS UNDER MAINTENANCE, KILOMETERS BY DISTRICTS JUNE 30, 1944

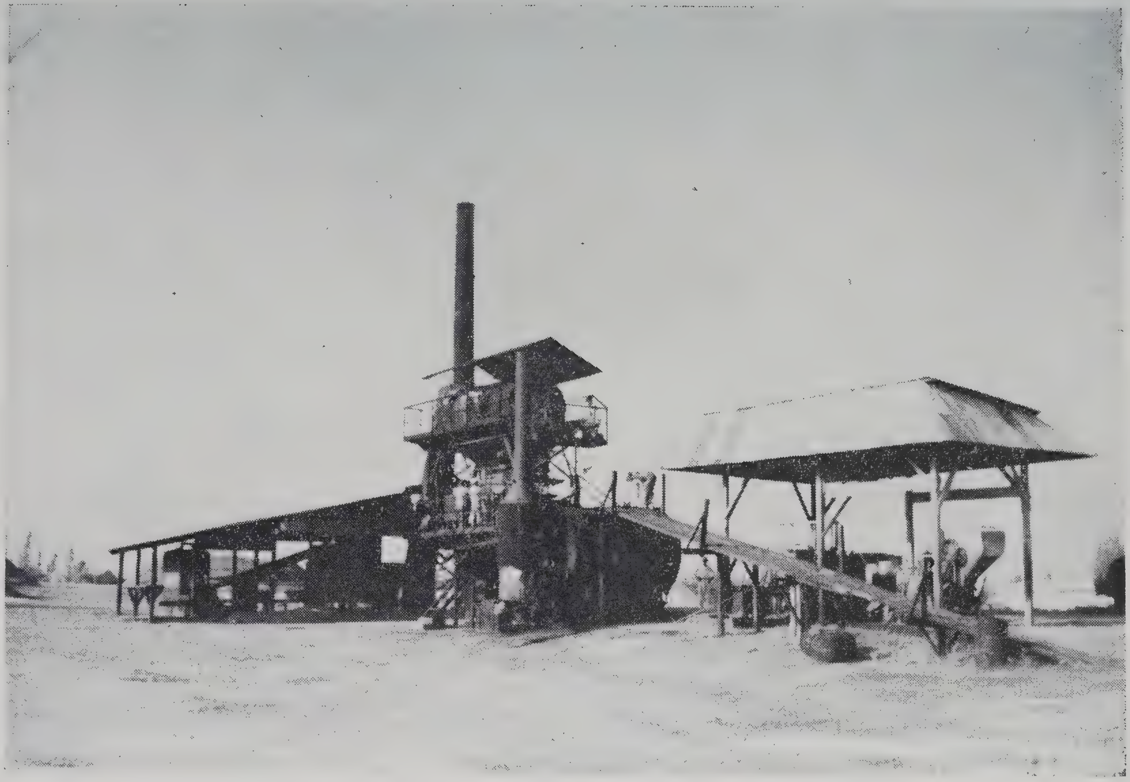
District No.	Office Location	Kilometers macadam not asphalted	Kilometers asphalted	Kilometers concreted	Total kilometers
1	Río Piedras	0.000	287.700	....	287.700
2	Manatí	14.600	306.800	....	321.400
3	Isabela	18.230	281,516	....	299.746
4	Mayagüez	13.000	248.719	1.2	262.919
5	San Germán	42.425	250.923	....	293.348
6	Ponce	21.800	265.234	....	287.034
7	Guayama	10.530	242.370	5.0	257.900
8	Humacao	6.600	273.100	....	279.700
9	Loíza	32.600	248.500	....	281.100
10	Barranquitas	4.000	227.400	....	231.400
11	Utuado	1.600	236.835	....	238.435
	TOTAL	165.385	2,869.097	6.2	3,040.682

CONSTRUCTION OF SECONDARY ROADS IN SEVERAL MUNICIPALITIES—FISCAL YEAR 1943-1944

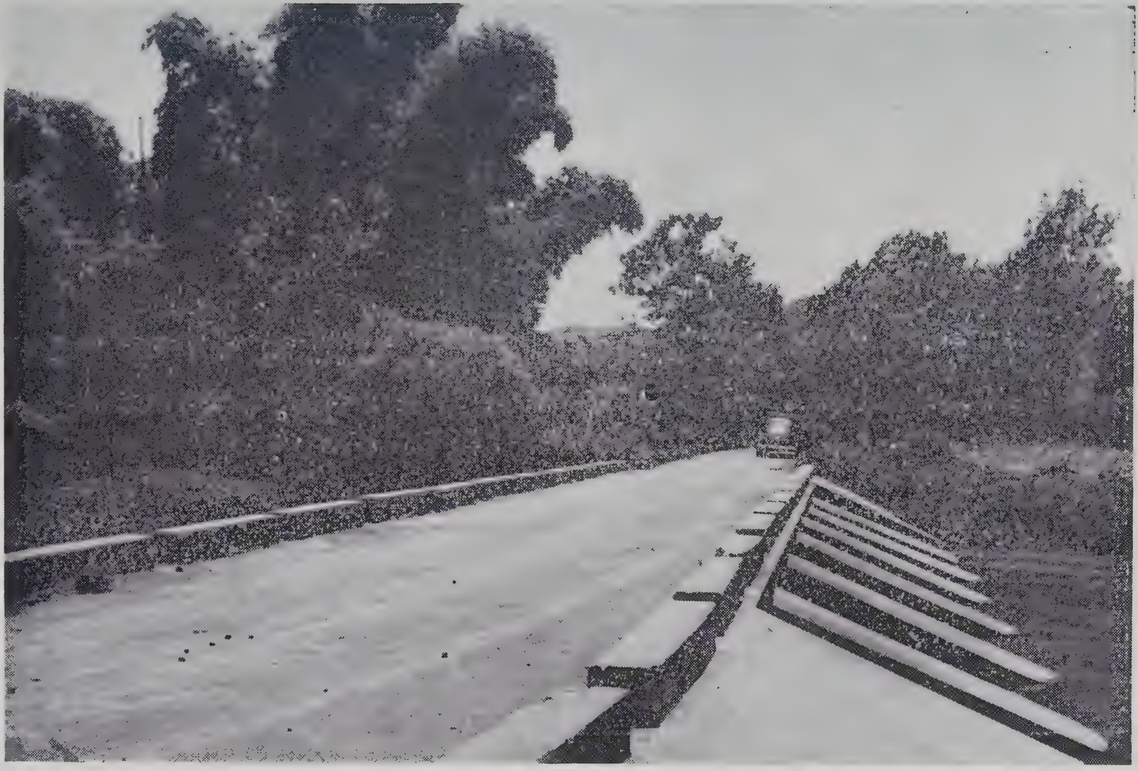
Location of Roads		Total Lenght of Road Proposed	By Force Account										By Work Progress Administration					By War Emergency Program					Total Lenght Constructed					Spent by Department of the Interior			
			Until June 30, 1943 With Surfacing as Follows					Until December 1943 With Surfacing as Follows					Until November 1943 With Surfacing as Follows					From January 1944 With Surfacing as Follows					Until June 30, 1944 With Surfacing as Follows					In Work Performed By Force Account	As Sponsor to W. P. A.	As Sponsor to W. E. P.	Total Spent In Each Road From Origin to June 30, 1944
Name	Municipality		Grading Only	With Telford	With Macadam	With Asphaltum	Structures	Granding Only	With Telford	With Macadam	With Asphaltum	Structures	Granding Only	With Telford	With Macadam	With Asphaltum	Structures	Granding Only	With Telford	With Macadam	With Asphaltum	Structures	Grading Only	With Teleford	With Macadam	With Asphaltum	Structures				
		L. M	L. M	L. M.	L. M.	L. M.	Number	L. M.	L. M.	L. M.	L. M.	Number	L. M.	L. M.	L. M.	L. M.	Number	L. M.	L. M.	L. M.	L. M.	Number	L. M.	L. M.	L. M.	L. M.	Number	$	$	$	$
Tanama	Adjuntas	2,000	400		700		3											700	50	150	700	3	900	50	150	700	6	27,769.15		3,742.62	31,511.77
Aibonito-Cayey-Salinas	Aibonito	2,000	500		200		3											1,075	175	100		3	1,300	175	300		6	30,790.21		2,869.25	33,659.46
Rabanales	Cidra	2,000	200		1,000		2											600	100		800	1	700	100	200	800	3	32,651.12		4,656.26	37,307.38
Pulguillas	Coamo	1,200	100		800		5											400	25	375	1,050	2	100	25	125	1,050	7	30,265.23		5,088.22	35,353.45
Palos Blanco	Corozal	2,000	400		700		14						200		300			700		1,000	1,400	4			600	1,400	18	46,022.38	10,091.75	4,707.17	60,821.30
Coabey	Jayuya	2,000	100		1,500		12											400			1,500	6	500			1,500	18	30,177.90		5,108.08	35,285.98
Higuillales	Naranjito	2,000			1,200		4						100	100	109		1								1,309		5	40,008.96	4,906.10		44,915.06
Tibes	Ponce	6,000	2,600		2,000		5						100	500	500								100		2,500		5	41,295.93	13,561.27		54,857.20
Quebradillas	Barranquitas	2,000	750		250		1						100		150		5	150	390	310	710	1	150	390		710	7	30,857.83	4,275.57	3,654.41	38,787.81
Cortés	Manatí	2,000	200		500		4						200		379		2	769		221		2	569		1,100		8	36,978.90	7,629.24	2,650.87	47,259.01
Rosario	Mayaguez	2,670	300		2,000		6						160		400			240		300	2,700	3				2,700	9	28,553.73	5,311.72	4,097.80	37,963.25
Sábana Grande-Maricao	Sábana Grande	2,000	800		600		8											600		900	200	1	300		1,500	200	9	29,642.43		4,265.22	33,907.65
Canóvanas Juncos	Canóvanas	2,000						800				8											800				8	23,597.67			23,597.67
Cerro Gordo	San Lorenzo	2,000								1,110		2													1,110		2	20,516.44			20,516.44
Montones	Las Piedras	2,000								1,500		3													1,500		3	20,900.72			20,900.72
Llanos Tuna	Cabo Rojo	2,000								1,560		4													1,560		4	21,431.23			21,431.23
Cercadillo	Cayey	2,000						300				7											300				7	12,099.76			12,099.76
La Prieta	Comerío	2,000								458		3													458		3	23,885.06			23,885.06
Aguas Buenas	Cidra	2,000						435	25	540		1											435	25	540		1	22,586.58			22,586.58
Cain Alto	San Germán	2,000						690		1,000		13											690	1,000			13	35,764.49			35,764.49
Palo Hincado	Barranquitas	2,300													2,300										2,300				3,460.55		3,460.55
Rancheras	Yauco	4,000													2,000	2,000									2,000	2,000			10,189.32		10,189.32
Central	Maunabo	3,400											400	300	2,700		2						400	300	2,700		2		9,032.60		9,032.60
Tallaboa	Peñuelas	7,500													2,400		12								2,400		12		9,474.96		9,474.96
Rucio	Peñuelas	3,640											840		2,800		14						840		2,800		14		15,447.28		15,447.28
Espino	Lares	5,359												150	1,600	3,600	12							150	1,600	3,600	12		12,420.00		12,420.00
Perchas	San Sebastián	2,340											600	100	1,000		2						600	100	1,000		2		13,112.96		13,112.96
Mirillas	Bayamón	3,260													2,600	1,100	7	575		325	1,665	1	250		160	2,765	8		18,750.02	7,887.61	26,637.63
Pasto	Morovis	1,200											300		900		6						300		900		6		7,551.25		7,551.25
Sierra Baja	Guayanilla	1,500													260	1,100									260	1,100			6,598.81		6,598.81
Barros	Hormigueros	1,800											1,200		600		2	200	800	700		2	500	200	1,300		4		3,254.38	6,253.79	9,508.17
Mabí	Río Grande	2,600											1,000		1,000		6						1,000		1,000		6		9,787.50		9,787.50
Hato Nuevo	Guaynabo	2,077														2,075	3									2,075	3		10,650.20		10,650.20
Quebrada Infierno	Trujillo Alto	2,000																800	420			4	800	420			4			3,585.84	3,585.84
Guavate	Cayey																	400	800	400			400	800	400					2,291.49	2,291.49
TOTAL		85,957	6,376		11,450		67	2,225	25	6,168		41	5,200	1,150	21,989	9,875	74	7,609	2,760	4,781	10,725	33	11,934	3,735	31,763	20,600	215	585,795.69	175,505.48	60,858.66	822,159.83

PROJECTS UNDER CONSTRUCTION BY CONTRACT DURING FISCAL YEAR 1943-1944

Projects	Date of Contract	Contract Price	Increases	Deductions	Total Contract Price	Paid to Contractor	Value of Pending Work	Federal Participation	Amount Reimbursed	Balance Pending	Cost of Right of Way	Inspection Charges			Remarks
												During 1943-1944	During Previous Years	Total	
F.A.P.-27A (1)-La Plata River Bridge Bayamón-Vega Alta Road CONTRACTOR Raúl Gaya Beneján	Oct 7, 1941	255,075.50	70,068.01		325,143.51	325,143.51		$209,827.50 (75%)	$184,648.20	$25,179.30	$3,796.00	6,057.92	11,723.87	17,781.79	Finished on January 21, 1944
F.A.P.-27B (1)-Bayamón-Vega Alta Road CONTRACTOR Arturo Rivera Gômez	Jan. 15, 1942	183,200.50	10,617.05		193,817.55	193,817.55		139,675.58 (75%)	125,918.00	13,757.58	10,257.80		12,692.56	12,692.56	Finished on July 11, 1943
F.A.P.-27C (1)-Bayamón-Vega Alta Road CONTRACTOR Gabriel Rexach Gómez	April 7, 1942	194,731.50	35,940.85		230,672.35	230,672.35		153,633.54 (75%)	153,633.54		39,924.51	1,874.32	9,173.21	11,047.53	Finished on September 15, 1943
F.A.P.-28A (1)-Road and Bridge Río Piedras-La Muda Road CONTRACTOR Adolfo Mussenden	Sept. 12, 1941	196,516.50	34,051.90		230,568.40	230,568.40		136,954.14 (75%)	136,954.14		58,292.36	789.93	18,318.57	19,108.50	Finished on December 27, 1943
F.A.P.-8F (1)-Bayamón River Bridge Santurce-Bayamón Road CONTRACTOR Vicente Quilichini	Sept. 13, 1941	182,370.65		15,439.84	166,930.81	166,930.81		150,097.50 (75%)	87,056.55	63,040.95		5,231.01	12,046.10	17,277.11	Finished on April 10, 1943
F.A.P.-3A (1)-Añasco River Bridge Mayagüez-Rincón Road CONTRACTOR Tomás Carro	July 23, 1940	197,362.25	25,547.87		222,910.12	222,910.12		108,135.00 (50%)	81,101.25	27,033.75			20,027.87	20,027.87	Finished by force account on February 29, 1944
F.A.G.H-3B (1)-Over Pass Mayagüez-Rincón Road CONTRACTOR Adolfo Mussenden	May 1, 1941	107,819.50	60,238.56		168,058.06	168,058.06		118,050.00 (100%)	101,523.00	16,527.00	680.00		8,261.66	8,261.66	Finished by force account on June 30, 1944
F.A.P.-5C (1)-San Sebastián-Añasco Road CONTRACTOR Hiram Forestier	March 14, 1939	52,132.00	10,603.25		62,735.25	62,735.25		28,215.00 (50%)	20,596.00	7,619.00					Finished by force account on June 30, 1944
Carrizal Secondary Road-Aguada CONTRACTOR Caribbean Engineering Co.	April 17, 1942	53,512.50	3,764.06		57,276.56	57,276.56					7,118.10		6,607.09	6,607.09	Finished by force account on June 30, 1944
F.A.P.-11D (1)-Quebradillas-Isabela Road CONTRACTOR Enrique Baez	April 10, 1942	229,804.00		7,644.00	222,160.00	219,603.22	2,556.78	188,076.90 (75%)	120,369.21	67,707.69	10,916.12	6,638.88	8,233.40	14,872.28	98.85 Per Cent finished
F.A.P.-11B (1)-Quebradillas-Isabela Road CONTRACTOR Genaro J. del Valle	Dec. 24, 1941	115,913.80	73,488.68		189,402.48	138,975.44	50,427.04	95,115.00 (75%)	52,313.00	42,802.00	551.00	4,147.21	3,715.29	7,862.50	73.38 Per Cent finished
F.A.G.H-11C (1)-Over Pass Quebradillas-Isabela Road CONTRACTOR Genaro J. del Valle	Dec. 24, 1941	102,026.00	13,448.26		115,474.26	107,961.58	7,512.68	111,470.00 (100%)	61,308.00	50,162.00	376.40	4,000.00	3,714.26	7,714.26	93.50 Per Cent finished
F.A.G.H-11A (3)-Over Pass Quebradillas-Isabela Road CONTRACTOR Genaro J. del Valle	Feb. 4, 1944	52,601.60	1,350.00		53,951.60	52,003.09	1,948.51	57,421.76 (100%)		57,421.76		1,907.17		1,907.17	96.40 Per Cent finished
Insular No. 63-Bayamón-Aguas Buenas Road CONTRACTOR Vicente Valdivieso Jr.	Feb 14, 1944	44,649.60	8,145.00		52,791.60	33,536.41	19,258.19				512.00	3,307.16		3,307.16	63.52 Per Cent finished
F.A.P.25A (2)-Grade Crossing Hatillo-Quebradillas Road CONTRUCTION BY U. S. E. D.	April 22, 1943	73,770.00			73,770.00	73,770.00		73,770.00 (100%)		73,770.00	2,011.75	339.83		339.83	Finished on October 21, 1943
F.A.P.-25A (3)-Hatillo-Quebradillas-Road CONSTRUCTION BY U.S.E.D.	April 22, 1943	37,111.55			37,111.55	37,111.55		27,833.66 (75%)		27,833.66		339.83		339.83	Finished on October 21, 1943
TOTAL		$2,078,597.45	$347,263.49	$23,083.84	$2,402,777.10	$2,321,073.90	$81,703.20	$1,598,275.58	$1,125,420.89	$472,854.69	$134,436.04	34,633.22	114,513.88	149,147.14	



ASPHALT CONCRETE MIXING PLANT AT MARTIN PEÑA
Capacity, 25 Tons per Hour.



OVERFLOW CONCRETE BRIDGE NEAR GUAYNABO
Santa Rosa Secondary Road.—Km. 0 3.

ASPHALTED ROADS

Road No.	Section	Total Length	Total Length Asphalted		
			Up to June 30, 1943	During 1943-44	Up to June 30, 1944
1	San Juan-Aibonito-Ponce	136.7	136.7		136.7
2	San Juan-Mayagüez-Ponce	233.6	233.6		233.6
2	San Juan-Mayagüez-Ponce	1.2	Concrete pavement		
3	San Juan-Fajardo-Ponce	199.7	199.7		199.7
4	Cayey-Guayama	26.1	26.1		26.1
5	Caguas-Aguas Buenas	28.7	28.7		28.7
5	Caguas-Humacao	23.5	23.5		23.5
6	Ponce-Adjuntas-Utuado	81.8	81.8		81.8
7	Caguas-San Lorenzo	22.4	22.4		22.4
8	Aguadilla-San Sebastián-Lares	82.4	82.4		82.4
9	Bayamón-Barranquitas	43.7	43.7		43.7
10	Toa Alta-Orocovis	77.1	77.1		77.1
11	Manatí-Juana Díaz	67.8	67.8		67.8
12	San Lorenzo-Patillas	34.0	34.0		34.0
13	Arecibo-Lares	33.6	33.6		33.6
13	Mayagüez-San Sebastián	41.8	41.8		41.8
14	Mayagüez-Maricao-Indiera	31.4	31.4		31.4
15	Alto Bandera-Casablanca	33.4	33.4		33.4
15	Aibonito-Orocovis	27.2	27.2		27.2
16	Yauco-Lares	35.4	35.4		35.4
17	Utuado-Jayuya	19.5	19.5		19.5
17	Utuado-Lares	21.2	21.2		21.2
18	Hormigueros-Boquerón	17.7	17.7		17.7
19	Lajas-Boquerón	10.0	10.0		10.0
20	Puente La Plata-Naranjito-Corozal	16.9	16.9		16.9
20	Campamento-Morovis-Corozal	21.7	21.7		21.7
21	Coamo-Los Baños	1.7	1.7		1.7
22	Comerío-Cidra-Las Cruces	22.5	22.5		22.5
23	Trujillo Alto-Gurabo	25.1	25.1		25.1
24	Cataño-Bayamón	7.2	7.2		7.2
25	Cataño-La Muda	13.8	13.8		13.8
26	Utuado-Barceloneta	5.5	5.5		5.5
26	Barceloneta-Utuado	22.0	22.0		22.0
27	Mayagüez-Maricao	25.8	25.8		25.8
28	Naguabo-Juncos	24.6	24.6		24.6
29	Cabo Rojo-San Germán	7.4	7.4		7.4
30	Vega Baja-Morovis	11.2	11.2		11.2
31	Calle Europa-De Diego-Loíza	2.5	2.5		2.5
32	Barrio Obrero-Río Piedras	6.2	6.2		6.2
33	Hatillo-Bayaney	9.0	8.5		8.5
34	Camuy-San Sebastián	29.2	29.2		29.2
35	Miramar-Martín Peña	2.1	2.1		2.1
36	Guayanilla-Ponce	24.0	24.0		24.0
37	Mayagüez-Correccional	5.2	5.2		5.2
37	Cabo Rojo-Joyuda	12.8	12.8		12.8
38	Isabel II-Playa Grande	13.3	13.3		13.3
39	San Germán-Yauco	34.6	34.6		34.6
40	Añasco-San Sebastián	17.1	17.1		17.1
41	La Marina-Martín Peña	6.5	6.5		6.5
42	Bayamón-Toa Alta	11.2	11.2		11.2
43	Canóvanas-Juncos	12.6	12.6		12.6
44	Loíza-Río Grande	19.0	19.0		19.0
45	Hato Rey-Sanatorio	4.5	4.5		4.5
46	Río Piedras-Sanatorio	5.0	5.0		5.0
47	Cayey-Salinas	33.0	33.0		33.0
48	Aibonito-Cayey-Salinas	4.3	4.3		4.3
49	Cidra-Cayey	8.7	8.7		8.7
50	San Germán-Las Vegas	11.2	11.2		11.2
51	Ponce-Jayuya	13.6	13.6		13.6
51	Jayuya-Ponce	7.7	7.7		7.7
52	Bayamón-Toa Alta	5.0	5.0		5.0
53	Reyes Católicos-Dorado	7.0	7.0		7.0
54	Puente La Vega-Morovis	14.9	14.9		14.9
55	Barceloneta-Arecibo	22.5	20.5	0.5	21.0
56	Lajas-Sabana Grande	13.1	13.1		13.1
57	Santurce-Carolina	12.6	12.6		12.6
58	Carolina-Juncos	10.6	10.6		10.6
59	Fajardo-Playa	2.2	2.2		2.2
60	Ceiba-Ensenada	4.3	4.3		4.3
61	Juana Díaz-Litoral	6.9	6.9		6.9
62	Guayama-Carite	8.1	8.1		8.1
63	Bayamón-Aguas Buenas	7.6	7.6		7.6
64	Buenos Aires-Lares	4.8	4.8		4.8

ASPHALTED ROADS—Continued

Road No.	Section	Total Length	Total Length Asphalted		
			Up to June 30, 1943	During 1943-44	Up to June 30, 1944
65	Villalba-Orocovis	11.3	11.3		11.3
66	Cabo Rojo-Puerto Real	4.2	4.2		4.2
67	Leprocomio-Río Piedras	2.4	2.4		2.4
68	Quebradillas-Guajataca	9.3	9.3		9.3
69	Puerto Real-Vieques	10.1	10.1		10.1
70	Punta Arenas-Vieques	6.5	6.5		6.5
71	Parguera-Lajas	3.3	3.3		3.3
72	Parque Colón-Aguadilla	1.5	1.5		1.5
73	Añasco-Rincón	8.3	8.3		8.3
74	San Germán-Rosario	7.4	7.4		7.4
75	Río Arriba-Saliente-Manatí	8.2	8.2		8.2
76	Malecón-Puerto Mayagüez	1.2	1.2		1.2
77	Coamo-Santa Isabel	13.6	13.6		13.6
78	Mayagüez-Hormigueros	2.3	2.3		2.3
80	Adjuntas-Guilarte	8.6	8.6		8.6
81	Sabana Grande-Maricao	21.0			
Road	Hato Rey-Río Piedras-Desvío	2.9		2.9	2.9
Road	Santurce-Bayamón (old road No. 2)	3.0	3.0		3.0
Road	Bayamón-Reyes Católicos (old road 2)	3.7	3.7		3.7
Road	Reyes Católicos-Espinosa (old road 2)	0.7	0.7		0.7
Road	Espinosa-Bauley (old road No. 2)	0.9	0.9		0.9
Road	Bayamón-Hato Tejas (old road No. 2)	2.0	2.0		2.0
Road	Bayamón-Pte. Quilichini (old road 2)	1.4	1.4		1.4
Road	Guaynabo-Acueducto	7.0	7.0		7.0
Road	Santurce-Calle Cerra	1.6	1.6		1.6
Road	Ingenio-Sabana Seca	2.0	2.0		2.0
Road	Cataño-Sabana Seca	14.0	14.0		14.0
Road	Vega Alta-Río Lajas	3.9	3.9		3.9
Road	Aguas Buenas-Jagueyes	9.7	9.7		9.7
Road	Toa Alta-Los Cocos	8.5	8.5		8.5
Road	Toa Alta-Quebrada Arenas	10.5	10.5		10.5
Road	Pájaros-Candelaria	2.0	2.0		2.0
Road	Bayamón-Buena Vista	2.2	2.2		2.2
Road	Cataño-Palo Seco	1.0	1.0		1.0
Road	Guaynabo-Santa Rosa	4.5	4.5		4.5
Road	Cataño-Palmas	4.6	4.6		4.6
Road	Bayamón-Cerro Gordo	2.4	2.4		2.4
Street	M. Pardo Vázquez-Cataño	1.0	1.0		1.0
Street	E. Sánchez López	0.8	0.8		0.8
Street	Junction Roads No. 1 and No. 41	0.1	0.1		0.1
Street	Nereidas Avenue-Cataño	1.0	1.0		1.0
Road	Guaynabo-Hato Nuevo	3.3	1.7	1.6	3.3
Road	Caguas-Cañaboncito	3.4	3.4		3.4
Road	Bayamón-Barrio Nuevo	3.8	3.8		3.8
Road	Bayamón-Minillas	2.6	1.6	1.0	2.6
Road	Guaynabo-Luis Alejandrino	1.4	1.4		1.4
Road	Santurce-Los Millones	0.3	0.3		0.3
Road	Manatí-Barceloneta (old road No. 2)	6.1	6.1		6.1
Road	Barceloneta-Florida (old road No. 2)	3.4	3.4		3.4
Road	Barceloneta-Arecibo (old road No. 2)	5.4	5.4		5.4
Road	Vega Alta-Vega Baja	7.9	7.9		7.9
Road	Vega Alta-Morovis	12.9	12.9		12.9
Road	Dorado-Maguayo	5.8	5.8		5.8
Road	Vega Alta-Maricao	2.1	2.1		2.1
Road	Vega Alta-Sabana Hoyos	6.0	6.0		6.0
Road	Vega Baja-Río Arriba	2.0	2.0		2.0
Road	Vega Baja-Manatí (old road)	13.5	13.5		13.5
Road	Vega Baja-Puerto Nuevo	5.8	5.8		5.8
Road	Vega Baja-Tortuguero	4.0	4.0		4.0
Road	Vega Baja-Algarrobo	0.3	0.3		0.3
Road	Manatí-Tierras Nuevas	3.4	3.4		3.4
Road	Manatí-Bda. Córdova Dávila	3.4	3.4		3.4
Road	Manatí-Monte Bello	12.0	12.0		12.0
Road	Florida-Quebrada	5.7	5.7		5.7
Road	Arecibo-Sabana Hoyos	3.0	1.5	1.3	2.8
Road	Arecibo-Factor	3.0	3.0		3.0
Road	Arecibo-Miraflores	6.9	6.9		6.9
Road	Arecibo-Puerto	1.7	1.7		1.7
Road	Barceloneta Garrochales	3.1		0.8	0.8
Road	Pajonal-Florida	3.0			
Road	Ceiba-Florida	3.0		2.2	2.2
Road	Ciales-Hato Viejo	3.0	1.0		1.0

ASPHALTED ROADS—Continued

Road No.	Section	Total Length	Total Length Asphalted		
			Up to June 30, 1943	During 1943-44	Up to June 30, 1944
Road	Ciales–Frontón	10.3	9.0	1.3	10.3
Road	Morovis–Pasto	7.8	5.0		5.0
Road	Morovis–Río Grande	3.0	3.0		3.0
Road	Morovis–Palo Pan	3.0	1.0		1.0
Road	Aguadilla–Cuesta Vieja	1.2	1.2		1.2
Road	Arecibo–Bda. Coll y Toste	0.24	0.24		0.24
Road	Isabela–Corchado Juarbe	1.412	1.412		1.412
Road	Aguadilla-Calle de Diego	1.47	1.47		1.47
Road	Aguadilla–Bda. J. de Jesús Esteves	1.7			
Road	Lares–Espino	5.24	3.1	2.14	5.24
Road	Camuy–Piedra Gorda	3.1	3.1		3.1
Road	Isabela–Barrio Arenales	3.2			
Road	Quebradillas–San José	3.25	3.25		3.25
Road	Isabela–Galateo Alto	1.75	1.75		1.75
Road	Hato Viejo–Galichosa	4.0	4.0		4.0
Road	Quebradillas–San Antonio	4.3	4.3		4.3
Road	Aguadilla–Borinquen	4.35	4.35		4.35
Road	Isabela–Guerrero	4.5	2.8		2.8
Road	Lares–Piletas	5.0	5.0		5.0
Road	Hato Viejo–Dominguito	6.0	6.0		6.0
Road	Aguadilla–Montaña	6.0	6.0		6.0
Road	Aguadilla–Borinquen Field	6.0	6.0		6.0
Road	Isabela-Galateo Bajo	6.0	6.0		6.0
Road	Camuy-Habra Honda	6.0			
Road	Utuado-Pajuil	6.2	6.2		6.2
Road	Dominguito-Esperanza	13.0	10.4	0.27	10.67
Road	Isabela-Barrio Mora	6.0	3.2		3.2
Road	Añasco-Humata	2.0	2.0		2.0
Road	Añasco-Cerro Gordo	2.0	2.0		2.0
Road	Mayagüez-Sanatorio	4.8	4.8		4.8
Road	Hormigueros-Rosario	3.2	3.2		3.2
Road	Mayagüez-Leguísamo	12.24	12.24		12.24
Road	Mayagüez-Río Cañas	1.06	1.06		1.06
Road	Mayagüez-Estación Experimental	0.504	0.504		0.504
Road	Rincón-Carretas	5.0	2.2		2.2
Road	Rincón-Cementerio	1.2	1.2		1.2
Road	Aguada-Atalaya	5.7	5.7		5.7
Road	Aguadilla-Carrizal	5.0			
Road	Aguada-Naranjos	3.0	1.0		1.0
Road	Moca-Barrio Isabela	2.0			
Road	Moca-Cuchillas	1.5	1.5		1.5
Road	Aguada-Espinal	1.0	1.0		1.0
Road	San Sebastián-Saltos	3.5	3.5		3.5
Road	San Sebastián-Robles	3.0	3.0		3.0
Road	Moca-Vargas	2.5	2.5		2.5
Road	Moca-Cruz	1.65	1.65		1.65
Road	Las Marías-Buenavista	8.00	8.00		8.00
Road	San Sebastián-Perchas	6.8	6.8		6.8
Road	Las Marías-Herrerías	4.6	3.4		3.4
Road	San Germán-Caín Alto	1.248	1.248		1.248
Road	San Germán-Cotuí	1.0	1.0		1.0
Road	Hormigueros-Eureka	2.0		2.0	2.0
Road	Cabo Rojo-Boquerón	6.6	6.6		6.6
Road	San Germán-Guamá	5.5	5.5		5.5
Road	Cabo Rojo-Guanajibo	3.7	3.7		3.7
Road	Maricao-Los Viveros	2.0			
Road	San Germán-Hoconuco	6.2			
Road	Sabana Grande-Indiera	1.7			
Road	Sabana Grande-Machuchal	4.0	4.0		4.0
Road	San Germán-Minillas	3.0	3.0		3.0
Road	La Parguera-Papayo	1.9	1.9		1.9
Road	Palmarejo-París	4.7	4.7		4.7
Road	Cabo Rojo-Pedernales	4.0	2.0		2.0
Road	Yauco-Rancheras	9.1	5.1	1.675	6.775
Road	Yauco-Rubias-Carrizales	5.4	1.2		1.2
Road	Yauco-Bda. Lluveras	3.0			
Road	Villalba-Doña Juana	13.0			
Road	Ponce-Real Anón	10.6	10.6		10.6
Road	Villalba-El Guineo	8.8			
Road	Ponce-Tibes	6.0	6.0		6.0
Road	Guayanilla-Sierra Baja	6.0	6.0		6.0
Road	Juana Díaz-Collores	5.682	5.682		5.682
Road	Juana Díaz-Naranjo	5.1	5.1		5.1
Road	Coamo-Los Llanos	5.0	5.0		5.0

ASPHALTED ROADS—Continued

Road No.	Section	Total Length	Total Length Asphalted		
			Up to June 30, 1943	During 1943–44	Up to June 30, 1944
Road	Peñuelas–Jaguas	5.0	5.0	...	5.0
Road	Ponce–Machuelo Arriba	3.47	...	3.47	3.47
Road	Villalba–Semil	3.4	3.4	...	3.4
Road	Ponce–Pámpanos	2.4	2.4	...	2.4
Road	Peñuelas–Tallaboa	2.4	...	2.4	2.4
Road	Villalba–Apeadero	2.0	2.0	...	2.0
Road	Juana Díaz–Guayabal	2.0	2.0	...	2.0
Road	Guayanilla–Playa	0.582	0.582	...	0.582
Road	Guayama–Barrio Carmen	6.6	6.6	...	6.6
Road	Patillas–Muñoz Rivera	5.517	5.517	...	5.517
Road	Arroyo–Barrio Yaurel	5.03	4.2	...	4.2
Road	Cayey–Guavate	14.6	...	4.9	4.9
Road	Salinas–Quebrada Yeguas	2.5	2.5	...	2.5
Road	Cayey–Barrio Cedro	2.3	2.3	...	2.3
Road	Santa Isabel–Gavias	1.5	1.5	...	1.5
Road	Aibonito–Preventorio	1.0	1.0	...	1.0
Road	Cayey–Desvio (concrete pavement)	5.0	...	...	...
Road	Fajardo–Río Arriba	5.3	5.3	...	5.3
Road	Ceiba–Río Abajo	5.3	5.3	...	5.3
Road	Naguabo–Duque	3.4	3.4	...	3.4
Road	Naguabo–Mariana	4.0	4.0	...	4.0
Road	Yunque–Río Blanco	15.6	15.6	...	15.6
Road	Humacao–Antón Ruiz	8.0	8.0	...	8.0
Road	Humacao–Mariana	2.0	2.0	...	2.0
Road	Yabucoa–Playa Guayanés	4.8	4.8	...	4.8
Road	Yabucoa–Trinidad	1.0	...	...	...
Road	Yabucoa–Laura–Limones	1.8	1.8	...	1.8
Road	Yabucoa–Juan Martín	2.6	2.6	...	2.6
Road	Yabucoa–Guayabota	2.6	...	...	...
Road	Humacao–Bda. A. Roig	2.9	2.9	...	2.9
Road	Las Piedras–Las Torres	6.4	6.4	...	6.4
Road	Las Piedras–Montones	2.5	1.00	...	1.00
Road	Juncos–Florida–San Lorenzo	5.9	5.9	...	5.9
Road	Juncos–Valenciano	6.0	6.0	...	6.0
Road	Juncos–Lirios	1.0	1.0	...	1.0
Road	San Lorenzo–Cerro Gordo	3.50	2.0	...	2.0
Road	San Lorenzo Jagual	3.7	3.7	...	3.7
Road	Caguas–Bda. José Mercado	2.8	2.8	...	2.8
Road	Caguas–Tomás de Castro	6.1	6.1	...	6.1
Road	Caguas–Borinquen	6.5	6.5	...	6.5
Road	Caguas–Bda. Delgado	0.7	0.7	...	0.7
Road	Gurabo–Jagual	2.5	2.5	...	2.5
Road	Gurabo–Jaguas	2.0	2.0	...	2.0
Road	Luquillo–Juan Martín	3.0	...	...	...
Road	Luquillo–Sabana	0.6	...	...	...
Road	Fajardo–Cabezas	4.6	4.6	...	4.6
Road	Fajardo–Bda. Veve Calzada	1.8	1.8	...	1.8
Road	Mameyes–El Yunque	15.0	15.0	...	15.0
Road	Río Grande–Guzmán	5.8	5.8	...	5.8
Road	Río Grande–El Verde	12.0	...	...	...
Road	Carolina–Canovanillas	7.0	7.0	...	7.0
Road	Carolina–Boca de Cangrejos	2.3	2.3	...	2.3
Road	Río Piedras–Caguas–Antigua Via	15.0	7.7	...	7.7
Road	Trujillo–Cupey Alto	11.4	11.4	...	11.4
Road	Trujillo–Carraizo	5.5	5.5	...	5.5
Road	Trujillo–Variante Carraizo	1.8	1.8	...	1.8
Road	Vieques–Puerto Diablo	8.2	8.2	...	8.2
Road	Culebras–Flamenco	2.0	2.0	...	2.0
Road	Carolina–Bda. S. Quiñones	8.0	...	8.0	8.0
Road	Trujillo–St. Just	4.5	3.0	1.5	4.5
Road	Luquillo–Mameyes	7.3	3.0	...	3.0
Road	Canóvanas–Las Coles	1.6	...	1.6	1.6
Road	Corozal–Palmaritos	2.0	2.0	...	2.0
Road	Comerío–Palomas	6.2	6.2	...	6.2
Road	Orocovis–Damián	6.3	6.3	...	6.3
Road	Cidra–Ceiba	4.2	4.2	...	4.2
Road	Naranjito–Higuillales	2.0	2.0	...	2.0
Road	Naranjito–Achiote	3.4	3.4	...	3.4
Road	Naranjito–Lomas	2.0	2.0	...	2.0
Road	Comerío–Piñas	2.4	2.4	...	2.4
Road	Barranquitas–Barrancas	5.4	5.4	...	5.4
Road	Aibonito–Cuyón	5.0	5.0	...	5.0
Road	Aibonito–Pulguillas	5.0	5.0	...	5.0
Road	Aibonito–Llanos	1.0	1.0	...	1.0

ASPHALTED ROADS—Continued

Road No.	Section	Total Length	Total Length Asphalted		
			Up to June 30, 1943	During 1943–44	Up to June 30, 1944
Road	Academia–Barranquitas	0.4	0.4	...	0.4
Road	Utuado–Angeles	1.4	1.4	...	1.4
Road	Adjuntas–Garzas	8.0	8.0	...	8.0
Road	Adjuntas–Vegas Arriba	1.4	1.4	...	1.4
Road	Utuado–Arenas	2.235	1.0	1.235	2.235
Road	Jayuya–Coabey	1.0	1.0	...	1.0
Road	Jayuya–Mameyes	4.7	4.7	...	4.7
Road	Lares–Bartolo–Río Prieto	3.5	3.5	...	3.5
Road	Lares–Río Prieto–Collazo	3.2	1.6	...	1.6
Road	Yauco–Río Prieto	4.2	4.2	...	4.2
Road	Utuado–Viví	6.5	6.5	...	6.5
Road	Arecibo–Travesia (old road No. 2)	1.100	1.100	...	1.100
Road	Hatillo–Camuy (old road No. 2)	5.040	5.040	...	5.040
Road	Camuy–Quebradillas (old road No. 2)	1.855	1.855	...	1.855
Road	Quebradillas–Viaducto (old road No. 2)	3.690	3.690	...	3.690
Road	Viaducto–Guajataca (old road No. 2)	1.115	1.115	...	1.115
Road	Guajataca–Isabela (old road No. 2)	10.952	10.952	...	10.952
Road	Naranjito–Palos Blancos	5.0	5.0	...	5.0
Road	Barranquitas–Palo Hincado	4.0	...	...	...
	TOTALS	3,040.682	2,828.307	40.790	2,869.097

BRIDGES REPAIRED AND PAINTED

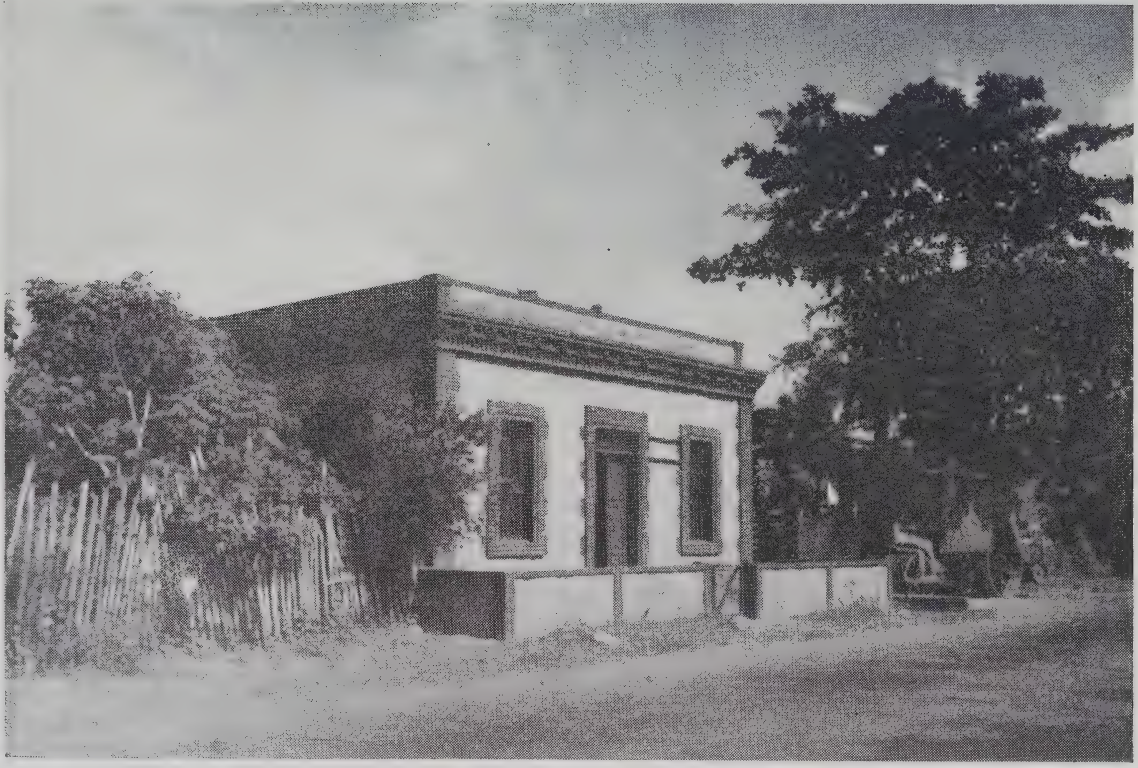
Repairs to bridge at Km. 33.5, Road No. 1	$823.20
Repairs to bridge at Km. 35.7, Road No. 1	1,056.30
Repairs to bridge at Km. 56.2, Road No. 1	10,612.55
Repairs to bridge at Km. 1.7, Road No. 2	3,002.41
Repairs to bridge at Km. 59.8, Road No. 2	1,538.41
Repairs to bridge at Km. 115.3, Road No. 2	1,884.01
Repairs to bridge at Km. 116.4, Road No. 2	349.84
Repairs to bridge at Km. 176.5, Road No. 2	1,998.95
Repairs to bridge at Km. 12.3, Road No. 3	3,691.25
Repairs to bridge at Km. 16.1, Road No. 3	300.96
Repairs to bridge at Km. 18.8, Road No. 3	334.36
Repairs to bridge at Km. 27.1, Road No. 3	1,152.30
Repairs to bridge at Km. 191.9, Road No. 3	475.90
Repairs to bridge at No. 6.3, Road No. 6	654.85
Repairs to bridge at Km. 1.1, Road No. 7	1,665.94
Repairs to bridge at Km. 17.3, Road No. 7	1,502.91
Repairs to bridge at Km. 28.4, Road No. 8	4,645.49
Repairs to bridge at Km. 14.5, Road No. 9	1,136.85
Repairs to bridge at Km. 9.7, Road No. 11	8,081.44
Repairs to bridge at Km. 6.0, Road No. 23	3,398.00
Repairs to bridge at Km. 24.3, Road No. 23	2,118.32
Repairs to bridge at Km. 6.4, Road No. 24	320.96
Repairs to bridge at Km. 7.1, Road No. 28	1,160.81
Repairs to bridge at Km. 22.0, Road No. 28	350.00
Repairs to bridge at Km. 0.1, Road No. 37	390.10
Repairs to bridge at Km. 1.3, Road No. 37	2,010.75
Repairs to bridge at Km. 1.8, Road No. 37	498.81
Construction of temporary bridge at Km. 72.2, Road No. 3	8,688.95
Repairs to bridge at Km. 12.0, Road No. 44	961.40
Repairs to bridge at Km. 3.6, Road No. 53	394.50
Repairs to bridge at Km. 0.3, Road No. 55	581.17
Repairs to bridge at Km. 1.1, Road No. 65	403.75
Repairs to bridge at Km. 4.5, Vega Alta–Candelaria Road	917.00
Repairs to bridge at Km. 12.0, Río Piedras–Caguas Road	1,104.32
Repairs to bridge at Km. 0.3, Peñuelas–Jaguas Road	2,593.01
Repairs to bridge at Km. 2.4, Ponce–Pámpanos Road	2,596.69
Repairs to bridge at Km. 10.0, Río Piedras–Caguas Via Road	1,284.75
Repairs to bridge at Km. 0.1, Comerío–Piñas Road	1,205.95
Repairs to bridge at Km. 3.5, Río Grande–El Verde Road	554.28
Minor repairs to several small bridges	3,191.26
Total	$79,632.70

CULVERTS AND OTHER STRUCTURES

Repairs to culvert at Km. 75, Road No. 2	$85.80
Repairs to culvert at Km. 96.4, Road No 3	218.60
Construction of a culvert at Km. 14.6, Road No. 10	807.27
Repairs to culvert at Km. 12.9, Road No. 13	130.50
Repairs to culvert at Km. 14.0, Road No. 13	302.87
Repairs to culvert at Km. 15.5, Road No. 15	239.20
Repairs to culvert at Km. 32.7, Road No. 13	401.88
Repairs to culvert at Km. 17.7, Road No. 16	256.20
Reconstruction of a culvert at Km. 10.50, Road No. 20	1,295.99
Construction of structure at Km. 14.5, Road No. 22	472.83
Construction of structure at Km. 22.5, Road No. 22	682.65
Reconstruction of a culvert at Km. 4.2, Road No. 29	929.06
Reconstruction of a culvert at Km. 5.6, Road No. 29	1,073.70
Construction of a structure at Km. 1.8, Road No. 52	704.67
Construction of a structure at Km. 3.7, Dominguito–Esperanza Road	205.40
Construction of a structure at Km. 3.8, Rubia–Carrizales Road	432.50
Minor repairs to culverts and structures	342.39
Total	$8,581.51

RETAINING WALLS

Construction of a retaining wall at Km. 26.4, Road No. 1	$480.48
Construction of a retaining wall at Km. 98.4, Road No. 1	150.10
Construction of a retaining wall at Km. 64.15, Road No. 1	252.00
Construction of a retaining wall at Km. 48.6, Road No. 1	4,220.53
Construction of a retaining wall at Km. 41.9, Road No. 1	504.80
Construction of a retaining wall at Km. 86.3, Road No. 1	4,080.29
Construction of a retaining wall at Km. 85.9, Road No. 1	434.28
Construction of a retaining wall at Km. 89.0, Road No. 1	3,222.59
Construction of a retaining wall at Km. 89.2, Road No. 1	231.10
Construction of a retaining wall at Km. 88.0, Road No. 1	258.90
Construction of a retaining wall at Km. 88.3, Road No. 1	929.65
Construction of a retaining wall at Km. 127.1, Road No. 2	163.90
Construction of a retaining wall at Km. 244.7, Road No. 2	162.70
Construction of a retaining wall at Km. 193.4, Road No. 3	5,953.73
Construction of a retaining wall at Km. 165.1, Road No. 3	1,996.00
Construction of a retaining wall at Km. 118.15, Road No. 3	184.20
Construction of a retaining wall at Km. 124.6, Road No. 3	200.80
Construction of a retaining wall at Km. 7.5, Road No. 4	107.08
Construction of a retaining wall at Km. 25.4, Road No. 4	1,731.95
Construction of a retaining wall at Km. 9.0, Road No. 6	144.32
Construction of a retaining wall at Km. 19.0, Road No. 6	474.20
Construction of a retaining wall at Km. 29.7, Road No. 11	2,260.11
Construction of a retaining wall at Km. 61.65, Road No. 11	226.87
Construction of a retaining wall at Km. 13.9, Road No. 13	285.11
Construction of a retaining wall at Km. 11.8, Road No. 14	321.40
Construction of a retaining wall at Km. 16.2, Road No. 14	1,021.00
Construction of a retaining wall at Km. 3.5, Road No. 16	567.50
Repairs to a retaining wall at Km. 6.1, Road No. 23	225.60
Construction of a retaining wall at Km. 9.9, Road No. 25	513.00
Construction of a retaining wall at Km. 7.7, Road No. 28	2,816.36
Construction of a retaining wall at Km. 2.4, Road No. 36	224.96
Construction of a retaining wall at Km. 14.1, Road No. 47	358.04
Construction of a retaining wall at Km. 8.1, Road No. 51	209.71
Construction of a retaining wall at Km. 6.8, Adjuntas–Garzas Road	3,606.49
Repairs to several retaining walls	747.46
Total	$39,267.21



ROADMENDER BLOCK STONE HOUSE
Built Under the Spanish Regime.
Insular Road No. 1.—Km. 22.8.

REPAIRS AND RECONSTRUCTION OF ROAD HOUSES

Painting and repairs to road house at Km. 13.6, Road No. 1	$183.99
Painting and repairs to road house at Km. 10.6, Road No. 1	169.28
Painting and repairs to road house at Km. 16.3, Road No. 1	135.29
Painting and repairs to road house at Km. 19.1, Road No. 1	151.13
Painting and repairs to road house at Km. 19.7, Road No. 1	166.46
Painting and repairs to road house at Km. 22.8, Road No. 1	141.83
Painting and repairs to road house at Km. 26.5, Road No. 1	203.53
Painting and repairs to road house at Km. 29.0, Road No. 1	140.66
Painting and repairs to road house at Km. 32.0, Road No. 1	132.30
Painting and repairs to road house at Km. 49.3, Road No. 1	760.40
Painting and repairs to road house at Km. 33.3, Road No. 1	254.44
Painting and repairs to road house at Km. 85.2, Road No. 1	329.09
Painting and repairs to road house at Km. 34.5, Road No. 1	189.30
Painting and repairs to road house at Km. 132.4, Road No. 1	349.78
Painting and repairs to road house at Km. 123.5, Road No. 2	110.75
Painting and repairs to road house at Km. 184.6, Road No. 2	161.50
Painting and repairs to road house at Km. 86.3, Road No. 3	453.46
Painting and repairs to road house at Km. 84.1, Road No. 3	821.22
Painting and repairs to road house at Km. 2.9, Road No. 6	631.14
Painting and repairs to road house at Km. 4.7, Road No. 41	420.15
Painting and repairs to road house at Km. 13.6, Road No. 28	459.60
Painting and repairs to road house at Km. 2.3, Road No. 69	355.80
Minor repairs to six road houses	522.79
Total	$7,243.89

OFFICE OF ROADSIDE IMPROVEMENT AND TRAFFIC CONTROL

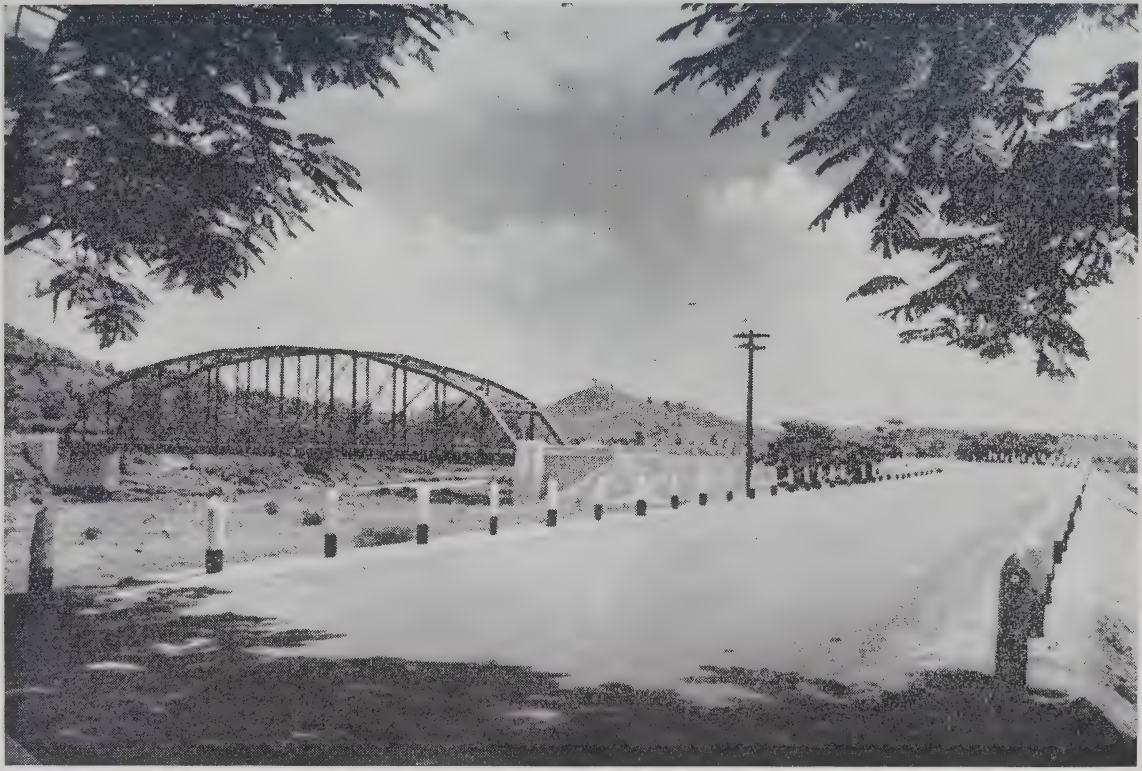
The Office of Roadside Improvement and Traffic Control was organized at the request of the Commissioner of the Interior, on August 12, 1943.

This Office is in charge of improving roadside conditions in the insular highways, design and construction of appropriate landscaping, developing park areas on selected sites, erecting recreational shelters and public comfort stations alongside highways; and installing at properly located places, adequate traffic signs and pavement markings, to expedite and safeguard public traffic.

There has been during the past years a demand for the services of this office from various divisions and departments of the Government contemplating the construction of parks or improvements at the environs of their localities, and to remodel buildings that came to be located within the new right-of-way of improved highways. Projects were made, and supervision and construction of the work are carried out upon request of the proper authority, duly approved by the Commissioner. These requests are an indication that the work of this office responds to the needs of present conditions, and at the same time afford the opportunity to deal with new problems, adopting modern design and theories reported by committees and experts on roadside development problems.

Since its organization this office has accumulated data on many phases and problems on roadside development. The construction of roadside parks or waysides has become an important part of the highway system; off-the-way parking facilities on our congested routes are essential, comparable only to the off-street parking facilities in metropolitan areas; selection and acquisition of sites for roadside parking and rest areas are also carefully made; and driveway parking areas and incidental construction features with sanitary facilities, water supply and other essential services are parts to complete the roadside improvement program.

The design and reconstruction of reinforced concrete fences on both side of Road No. 37, Loíza Street; the design and reconstruction of twenty facades of commercial and residential buildings, included as part of the project for the Construction, Improvement and Widening of Loíza Street, Santurce, were also part of the work executed under the direction and supervision of this office.

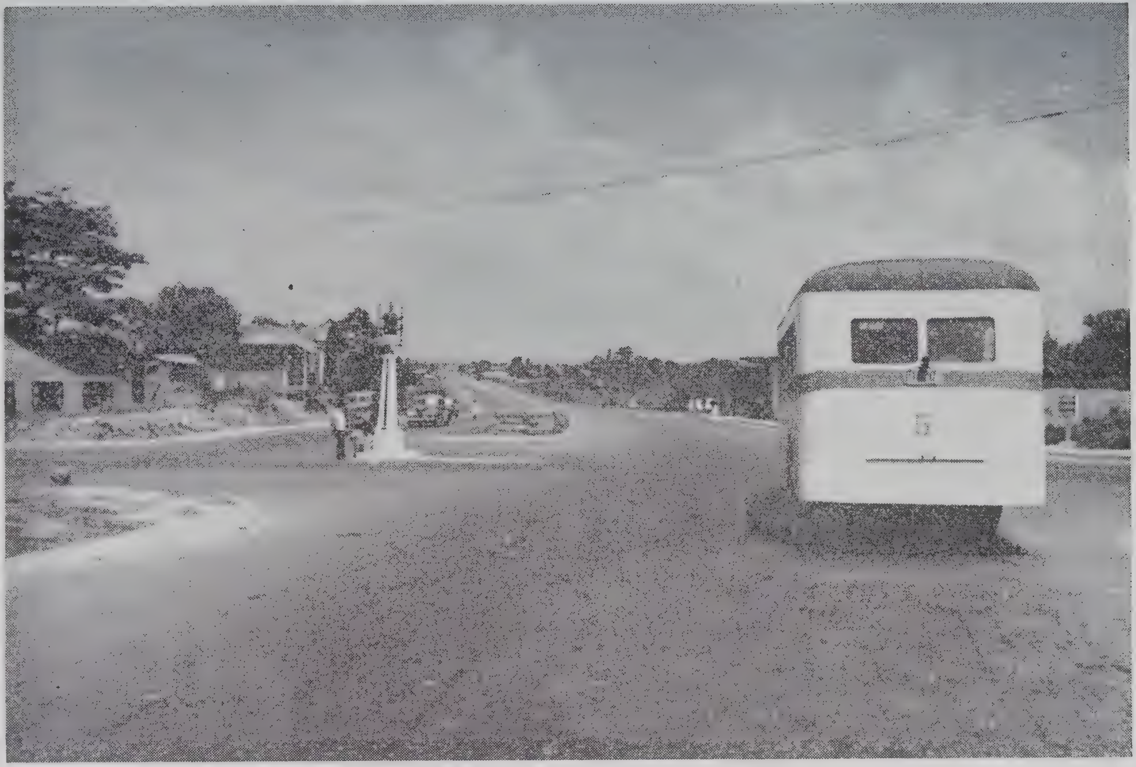


GUARD POST BARRIERS—TRUJILLO ALTO BRIDGE

Insular Road No. 23.—Km. 6.3.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Insular Funds.



AUTOMATIC TRAFFIC SIGNAL—JUNCTION OF ROADS 2 AND 9
Insular Road No. 2.—Km. 11.8.

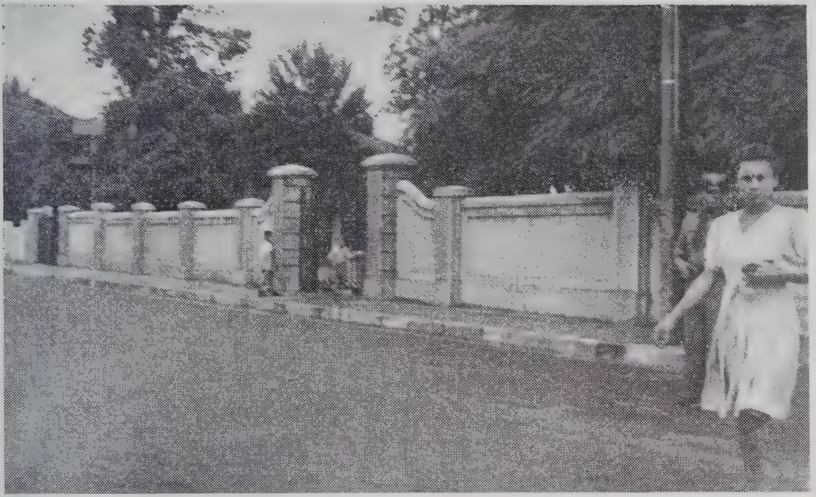
Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Insular Funds.

ROADSIDE PARK AT ENTRANCE TO CAMP BUCHANAN
Insular Road No. 2.—Km. 5.2.

Sergio Cuevas Bustamante,
Commissioner.

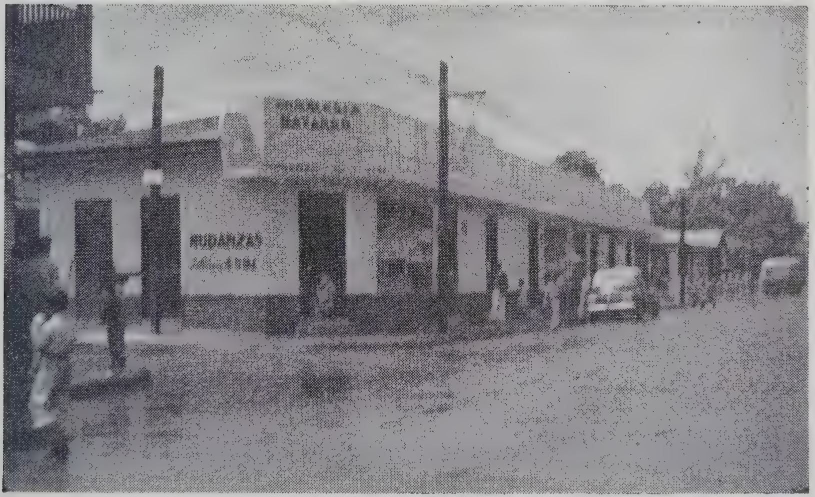
Administration Work.
Insular Funds.



ORNAMENTAL REINFORCED CONCRETE FENCE
GOYCO GRADED SCHOOL
Improvement Works to Loíza Street, Santurce.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.



REMODELLED COMMERCIAL BUILDING
Improvement Works to Loíza Street, Santurce.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Federal and Insular Funds.

SOIL EROSION

Some types of soil met in the construction of our highways are susceptible of rapid erosion, specially so in those sections of the Island where the topography is ragged and hilly and the precipitation heavy during the rainy seasons.

One of these cases was treated on Road No. 2, Arecibo–Hatillo Section, where a serious soil erosion was threatening to damage the paved surface of the recently constructed highway. In order to obtain better results, experts of the Federal Bureau of Conservation of Soils were consulted. These experts studied the case and obtained valuable information on the premises. After considering the various methods known, it was arrived at the conclusion that the building of terraces and the planting of clinging grasses was the best one to be adopted in this particular case. The method recommended was followed, and the results obtained so far are considered as satisfactory.

PROJECTS PREPARED BY THE DIVISION OF ROADSIDE IMPROVEMENT AND TRAFFIC CONTROL DURING THE FISCAL YEAR 1943-1944

Town or Road Number	Project	Funds	Estimated cost
Santurce Road 37	Improvement and Widening of Loiza Street. Remodeling of 20 Frontages of Buildings.	Insular	$45,000.00
Santurce Road 37	Improvement and Widening of Loiza Street. Construction of: 62 Reinforced Concrete Fences (1252 L. M.)	Insular	19,800.00
	4 Rubble Stone Fences (148.80 L. M.)	Insular	3,200.00
Santurce	Improvemeng to Streets and Surroundings of the Deparment of Health.	Ins.-WEP	33,400.00
San Juan	Public Bathing Beach at Stop 8, Muñoz Rivera Park	WEP	68,000.00
Roads 2 and 25	Public Roadside Park and Parking Area at junction of Roads 2 and 25, Buchanan, Cataño	Insular	5,000.00
San Juan	Recreational Park between La Fortaleza and Casa Blanca.	Ins.-WEP	6,000.00
Roads 2 and 25	Safety Islands, to Regulate Traffic. Junction of Roads 2 and 25, Guaynabo Road.	Insular	900.00
Trujillo Alto	Erection of Guard Rail Posts to Eliminate Traffic Hazards at Curves Km. 6.3 of Road 23.	Insular	600.00
Road 1-Stop 34	Public Roadside Betterment at Junction of Road 1 and Hato Rey-Río Piedras Branch.	Insular	5,200.00
Arecibo	Treatment of Steep Slope to Prevent Landslides and Soil Erosion, Road 2, Arecibo-Hatillo Section	WEP	3,500.00
San Juan	Exterior, Reinforced Concrete Steps and Improvements. North front of Capitol.	Insular	2,500.00
Island Wide	Directional Signs and Markers	Insular	4,500
San Juan	Bus Stop Marking. San Juan, Santurce and Río Piedras Road.	Insular	800.00
Arecibo	Recreational Park at Ward Buenos Aires, Arecibo.	Insular	6,600.00
Río Piedras	Convalescencia Park	Ins.-WEP	25,000.00
Bayamón	Traffic Light and Post, Roads 2 and 9.	Insular	500.00
	Total		$230,500.00

WORK DONE BY FORCE ACCOUNT DURING THE FISCAL YEAR 1943-1944

Town or Road	Project	Funds	Total Expended
Santurce..........	Improvement and widening of Loíza Street.—Modifying 16 frontages-12 commercial and 4 houses.	Insular....	$24, 737.16
Santurce..........	Improvement and widening of Loíza Street—Construction of 1252 L. M. of reinforced concrete fences.	Insular....	19, 800.00
Santurce..........	148.80 L. M. of rubble masonry fences................	Insular....	3, 200.00
San Juan..........	Construction of two (2) reinforced concrete steps and improvements to grounds on North front of Capitol	Insular....	2, 300.00
San Juan..........	Bus stop marking, San Juan, Santurce—Río Piedras Road.	Insular....	800.00
Roads 2 and 25....	Public roadside park and parking area—Junction of Roads 2 and 25—Camp Buchanan, Cataño.	Insular....	5, 200.00
Roads 2 and 25....	Construction of safety islands to regulate traffic—Junction of Roads 2 and 25,—Guaynabo Road.	Insular....	830.00
Trujillo Alto.......	Erection of guard posts to eliminate traffic hazards at curves of Road 23 Km. 6.3.	Insular....	470.00
Road 1 Stop 34.....	Public roadside betterment—Junction of Road 1 and Hato Rey-Río Piedras Branch.	Insular....	750.00
Island Wide.......	Erection of directional signs and markers on Roads 1, 2 and 25.	Insular....	4, 500.00
Bayamón..........	Construction of traffic light and post—Junction of Roads 2 and 9.	Insular....	500.00
	TOTAL....................................	....	$63, 087.16

PROJECTS IN COURSE OF PREPARATION

Town or Road Number	Project	Funds	Estimated Cost
Road 25...........	Roadside Park-Entrance to Poultry Farm—Guaynabo Road.	Insular....	$800.00
Road 2............	Roadside Park, Shelter and Concession-Road 2 Km. 8.0 Entrance Bayamón District Hospital	Insular WEP	10, 000.00
Road 2............	Roadside and Picnic Park-Road 2-Km. 22.9..........	Insular WEP	9, 00.00
Road 2............	Construction of Guard Rail Posts alongside Road 2—Santurce-Arecibo Section.	Insular WEP	4, 500.00
Road 1............	Construction of Directional Signs—Roads 1, 2 and 25	Insular....	1, 500.00
	TOTAL....................................	....	$25, 800. 0

DIVISION OF PUBLIC BUILDINGS AND MUNICIPAL WORKS

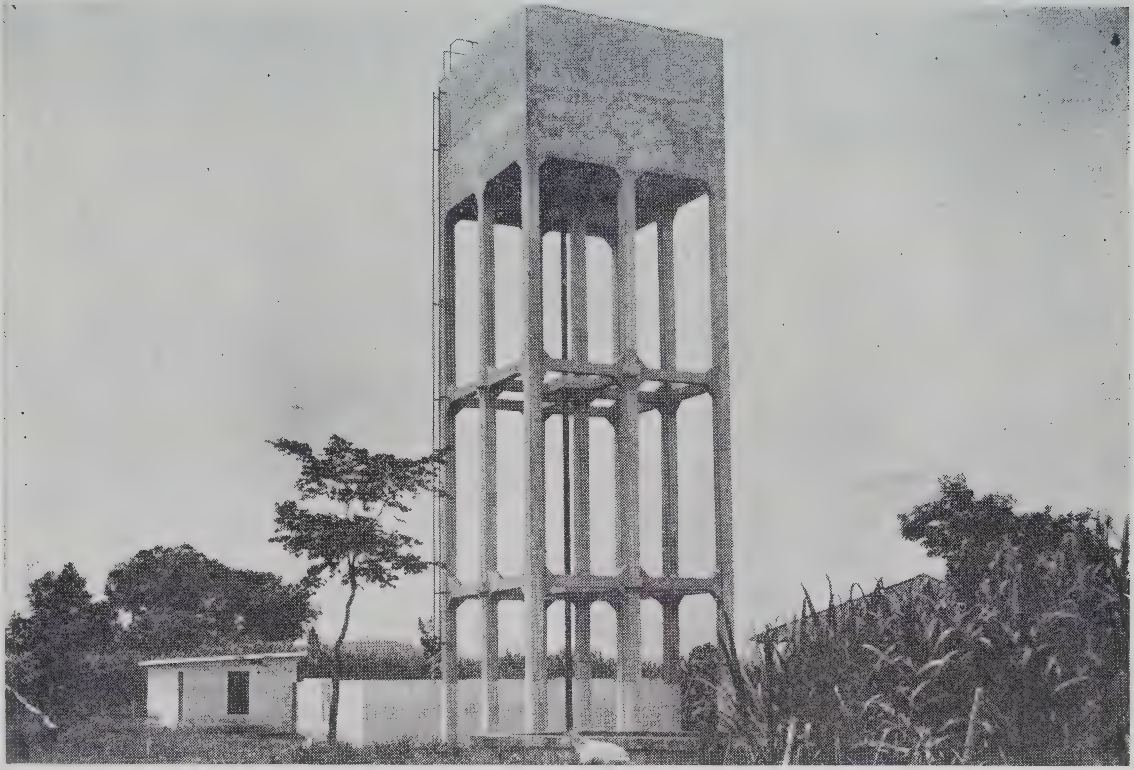
This Division is in charge of the construction and maintenance of all buildings belonging to the Insular Government and of the design and construction of Municipal works financed with Insular funds. All projects undertaken by Municipalities with funds proceeding from Municipal loans must be supervised and inspected by this Division.

Although the number of public buildings is larger and the rate at which they deteriorate has increased, the regular appropriation for their maintenance, included in the Budget ($125,000), was not increased. An effort had to be made to attend to the most urgent and necessary repair works in the various buildings, consistent with the funds available.

The situation was somewhat relieved with an appropriation of $210,000 authorized by the War Emergency Council for the repair of Insular and Municipal public buildings. Among the Insular buildings repaired with these funds are the following: Insular Home for Girls, Tuberculosis Hospital (Río Piedras), Castillo Building (Ponce), Department of Health (Santurce), Asylum for the Aged Blind (Ponce) and the Leper Colony at Trujillo.

The Legislature of Puerto Rico in its regular session of 1943, approved also an appropriation of $50,000 for the repairs and improvements of the Insular Home for Insane, located in Río Piedras and consisting of 15 reinforced concrete buildings, having an estimated value of $1,000,000. Because during the past years very little was done toward keeping public buildings, in general, under repairs, because of the very limited appropriation for this purpose, the conditions of all buildings in this Institution were really very poor.

It was considered that the appropriation of $50,000 was inadequate for taking care of all the required repairs and minor improvements. With this in mind, a project was submitted to the War Emergency Program for this Institution, at a total cost of $163,100, for which the Insular Department of the Interior was to contribute with the $50,000 appropriated by the Legislature of Puerto Rico for this purpose.



REINFORCED CONCRETE PUMP HOUSE AND TANKS
MOCA AQUEDUCT
Ground Tank, 150,000 Gals.—Elevated Tank, 20,000 Gals.
Completed June, 1944.—Cost of Aqueduct, $50,000.
Sergio Cuevas Bustamante, Commissioner. Administration Work.

This project was approved and immediately placed in operation. At first, progress was very slow due to organizational difficulties under the War Emergency Program and to the imposibilty of obtaining the required materials due to the War Emergency.

An application was submitted to the War Production Board back in March 16, 1944 requesting the required exemptions on their construction limitations, so that materials could be acquired. This application was finally approved on June the 13th, 1944.

The project is now progressing satisfactorily as materials are being readily obtained under the authorization of the War Production Board since the situation in connection with construction materials has greatly improved.

In spite of all the difficulties mentioned, work on three patient wards is practically completed, consisting in the replacement or repairs to all doors and windows, repairs to the electric and sanitary systems, and repairs to floors, patching of cement plaster and general painting job. The contemplated repairs on the Administration Building, the corridors and the Doctors' residences are also progressing satisfactorily.

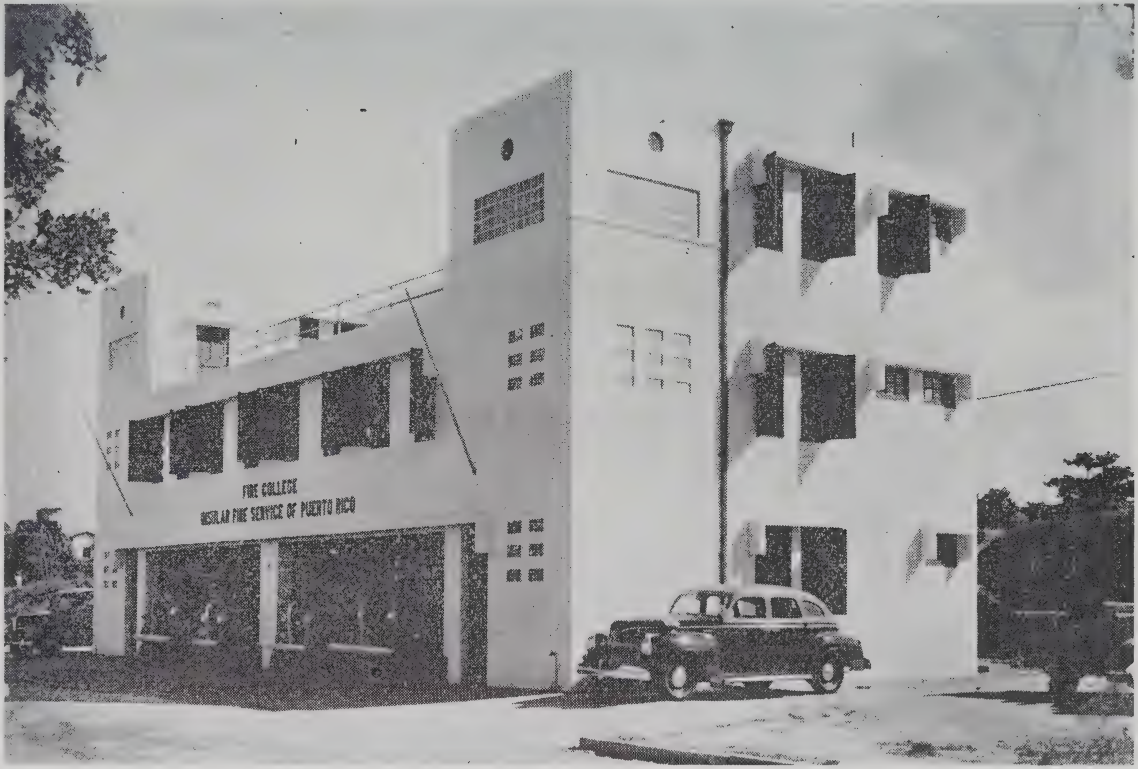
A contract had been let out for the replacement of the smokestack of the boiler room servicing the kitchens, and for the repairs of the main steam lines from the boiler to the kitchen room. Work on these two items will start under contract within the next few days.

A large part of the time and efforts of this Division was dedicated to cooperate with various Municipalities in the preparation of projects sponsored by them and to be executed by the War Emergency Program. In this way many insolvent Municipalities were able to take advantage of the opportunities offered by the Emergency Program. Plans, estimates, and specifications were prepared at the request of various Municipalities, for the construction of new school buildings, hospitals, cemeteries, public squares, bridges, canalization of streams and rural and urban water supply systems.

New construction work performed by the Division of Public Buildings and Municipal Works during the year 1943–44, amounted to approximately $500,000, including 33. new fire stations, four school buildings (18 school rooms in total), a retaining wall along the Río Grande in the town of Jayuya, two urban (Moca and Las Marías) and seven rural water supply systems, a new pent-house on the roof of the Governor's Palace and the construction of a Hospital for venereal diseases at Guavate, Cayey.

PROJECTS PREPARED BY THE DIVISION OF PUBLIC BUILDINGS AND MUNICIPAL WORKS DURING THE FISCAL YEAR 1943–44

Town	Project	Estimated Cost
Arecibo	Improvement of “Santiago” River channel and construction of collecting sewer for a section of the city.	$150,000.00
Arecibo	Water supply system for “Sabana Hoyos” Ward, “Ballajá”, Section	4,800.00
Arecibo	Water supply system for “Sabana Hoyos” Ward, “Montaña” Section	9,500.00
Arecibo	Water supply system for “Tanamá” Ward, “La Guinea” Section	8,000.00
Barceloneta	Extension of the town’s water supply system to “Palmas Altas” Ward.	9,950.00
Barranquitas	Water supply system for “Las Vega” Settlement	11,000.00
Cayey	Improvements to the water supply system for Camp Guavate	1,320.00
Cayey	Construction of a Frame Building at Camp Guavate	11,000.00
Ciales	Improvements of “Sana Muertos” creek channel	35,000.00
Cidra	Small suspension bridge over “La Plata” River at “Honduras” Ward	5,500.00
Cidra	Small suspension bridge over “La Plata” River at “El Salto” Ward	6,500.00
Culebra	Construction of a cistern for the water supply of Dewey Town	12,000.00
Dorado	Water supply system for “Maguayo” and “Santa Rosa” Wards	9,900.00
Fajardo	Fishing Center for the Department of Agriculture	8,529.68
Guayama	Repairs to the District Jail	10,000.00
Guayama	Addition to the Municipal Cemetery	10,000.00
Jayuya	Construction of a Town Hall	28,826.32
Jayuya	Water supply system for “Río Grande’ Ward	2,894.20
Jayuya	Reconstruction of the water supply system of the town	33,000.00
Jayuya	Retaining wall along the margin of “Río Grande” River, upstream “Coabey” Road’s overflow bridge.	60,000.00
Las Piedras	Improvements to the water supply system of “Pueblito del Río” Ward	7,200.00
Maricao	Construction of a Town Hall	35,000.00
Mayagüez	Construction of a retaining wall at the site “El Murallón” and improvements to the “Yagüez” River channel	73,000.00
Ponce	Water supply system for “Coto Laurel” Ward	9,000.00
Ponce	Repairs to the Asylum for Blinds	6,000.00
Ponce	Construction of Fence, District Hospital	12,000.00
Río Piedras	Water supply system for “Cepero” Settlement, “Sabana Llana Ward.	7,000.00
Río Piedras	Repairs to the–Psychiatry Hospital	163,100.00
Río Piedras	Repairs and alterations to Lunch Room and Employees Quarters, Insular Sanatorium	10,000.00
San Juan	Pent–house – Fondo del Seguro del Estado	4,140.00
San Juan	Laboratory for the Bureau of Weights and Measures	1,657.35
San Juan	Addition to the Fondo del Seguro del Estado Building	18,858 01
San Lorenzo	Addition and Repairs to the Municipal Hospital	38,133.49
Santurce	Concrete Building at Grounds Surrounding the Department of the Interior.	110,882.76


FIRE COLLEGE
INSULAR FIRE SERVICE OF PUERTO RICO

INSULAR FIRE SERVICE BUILDING
SANTURCE, PUERTO RICO
Completed June, 1944.—Cost: $41,947.82.
Sergio Cuevas Bustamante, Commissioner. Martín Martell, Contractor.

PROJECTS PREPARED BY THE DIVISION OF PUBLIC BUILDINGS AND MUNICIPAL WORKS DURING THE FISCAL YEAR 1943-44—Continued

Town	Project	Estimated Cost
Santurce	Addition to the Fire Station Miramar, Martin Peña Avenue	$41,947.82
Santurce	Repairs to the Blind Asylum for Children at Stop 19, Santurce	10,000.00
Santurce	Addition and Repairs to the Insular Home for Girls at Stop 15, Santurce	35,000.00
Santurce	Repairs to the Department of Health	35,000.00
Santurce	Addition to the Department of Health	245,000.00
Vega Baja	Extension of the water supply system of "Coto Norte" Ward, Manatí to "Algarrobo" Ward, Vega Baja.	6,000.00
	Total Estimated Cost	$1,296,639.63

CONTRACTS AWARDED IN PRECEDING YEARS AND CONTINUED DURING THIS YEAR

No.	Description	Estimate	Contract Price	Year
1	Carolina—Construction of two deep wells for the water supply system.	$7,500.00	$8,000.00	
2	Dorado—Construction of deep wells for the water supply of "Maguayo" Ward.	2,500.00	4,500.00	
3	Santurce—Construction of an addition to the Department of Agriculture and Commerce, Fernández Juncos, Ave., Stop 19, Santurce, P. R.	80,000.00	87,643.00	$27,748.51
	CONTRACTS WITH TOTALS OF	$90,000.00	$100,143.00	$27,748.51

MISCELLANEOUS WORKS BY FORCE ACCOUNT

Description of Work	Amount Expended
Maintenance and Repairs to Public Buildings	$125,000.00
Construction work on the Capitol Building	42,708.61
Maintenance of Muñoz Rivera Park and House Barranquitas, P. R.	2,000.00
Arecibo—Water supply system for "Sabana Hoyos" Ward, "Ballaja" Section	5,258.46
Arecibo—Water supply system for "Sábana Hoyos" Ward, "Montaña" Section	8,237.51
Bayamón— Improvements to the water supply system of the Charity District Hospital	11,220.95
Guayama—Reinforced concrete elevated tank for the water supp. sys. of "Jobos" Ward	3,381.31
Jayuya—Retaining wall along the margin of "Río Grande" River	22,746.05
Manatí—Water supply system for "Coto Norte" Ward	11,075.04
Moca—Water supply system	6,500.00
San Germán—Water supply system for "Rosario" Ward	15,353.23
	$253,481.16

CONTRACTS AWARDED DURING THE YEAR 1943–44

Town	Project	Contract Price	Paid This Year	Total Cost
Arecibo	Construction of a Fire Station Building, Civilian Defense	$11,000.00	$11,610.80	$11,610.80
Arecibo	Four rooms concrete school building	9,200.00	400.00	9,200.00
Aguadilla	Construction of a Fire Station Building, Civilian Defense	11,900.00	9,958.00	9,958.00
Arroyo	Construction of a Fire Station Building, Civilian Defense	4,950.00	4,830.00	4,830.00
Añasco	Two rooms concrete school building	3,550.00	3,550.00	3,550.00
Bayamón	Construction of a Fire Station Building, Civilian Defense	4,515.00	10,547.00	10,547.00
Cabo Rojo	Construction of deep wells for the water supply system of Corozo Ward	3,800.00	2,250.00	2,250.00
Cataño	Construction of a Fire Station Building, Civilian Defense	4,515.00	4,395.00	4,395.00
Carolina	Construction of a Fire Station Building, Civilian Defense	4,515.00	4,395.00	4,395.00
Cayey	Dismantling of Camp Borinquen at Guánica, P. R. and reconstruction of Camp Guavate, Cayey, P. R.	13,000.00	19,965.00	19,965.00
Cayey	Construction of a Fire Station Building, Civilian Defense	3,783.34	3,683.34	3,683.34
Coamo	Two rooms concrete school building	3,350.00	3,319.00	3,319.00
Coamo	Construction of a Fire Station Building, Civilian Defense	4,950.00	4,870.00	4,870.00
Camuy	Three rooms school building	4,900.00	1,365.00	5,177.00
Caguas	Construction of a Fire Station Building, Civilian Defense	8,689.50	8,514.50	8,514.50
Fajardo	Construction of a Fire Station Building, Civilian Defense	4,515.00	4,395.00	4,395.00
Guayama	Construction of a Fire Station Building, Civilian Defense	11,900.00	9,893.00	9,893.00
Gurabo	Construction of a Fire Station Building, Civilian Defense	3,703.34	3,603.34	3,603.34
Guánica	Construction of a Fire Station Building, Civilian Defense	4,950.00	4,820.00	4,820.00
Humacao	Construction of a Fire Station Building, Civilian Defense	8,639.50	8,464.50	8,464.50
Juncos	Construction of a Fire Station Building, Civilian Defense	3,503.34	3,403.34	3,403.34
Mayagüez	Construction of a Fire Station Building, Civilian Defense	11,900.00	10,253.00	10,253.00
Manatí	Construction of a Fire Station Building, Civilian Defense	4,300.00	4,180.00	4,180.00
Manatí	Four rooms concrete school building	13,600.00	13,600.00	13,600.00
Morovis	Two rooms concrete school building	3,350.00	3,375.00	3,550.00
Ponce	Six rooms concrete school building	17,400.00	20,672.50	20,672.50
Ponce	Construction of a Fire Station Building Civilian Defense	11,900.00	9,958.00	9,958.00
Ponce	Construction of a Fire Station Building, Civilian Defense	4,950.00	5,030.00	5,030.00

CONTRACTS AWARDED DURING THE YEAR 1943-44—Continued

Town	Project	Contract Price	Paid This Year	Total Cost
Río Piedras	Construction of a Fire Station Building, Civilian Defense	4, 515.00	4, 395.00	4, 395.00
Santa Isabel	Construction of a Fire Station Building, Civilian Defense	4, 950.00	4, 820.00	4, 820.00
San Germán	Construction of a Fire Station Building, Civilian Defense	4, 950.00	4, 810.00	4, 810.00
San Germán	Eight Rooms Concrete school building	24, 300.00	24, 252.00	24, 252.00
Sabana Grande	Construction of a Fire Station Building, Civilian Defense	4, 950.00	4, 810.00	4, 810.00
San Lorenzo	Construction of a Fire Station Building, Civilian Defense	3, 403.34	3, 303.34	3, 303.34
San Sebastián	Three rooms school building	5, 050.00	5, 099.00	5, 099.00
San Juan	Construction of a Fire Station Building, Civilian Defense	4, 515.00	4, 395.00	4, 395.00
San Juan	Electric lighting system for the Barceló Public Square at the Workmen's Settlement (Bo. Obrero) Santurce	2, 948.28	2, 318.65	2, 318.65
Santurce, (Barrio Obrero)	Construction of a Fire Station Building, Civilian Defense	4, 515.00	4, 395.00	4, 395.00
Santurce	Construction of a Fire Station Building, Civilian Defense	41, 947.82	41, 947.82	41, 947.82
Santurce	Construction of a Warehouse for Civilian Defense	15, 185.00	11, 284.00	11, 284.00
Utuado	Construction of a Fire Station Building, Civilian Defense	4, 400.00	4, 280.00	4, 280.00
Vega Baja	Construction of a Fire Station Building, Civilian Defense	4, 300.00	4, 724.00	4, 724.00
Vega Alta	Construction of a Fire Station Building, Civilian Defense	4, 500.00	4, 380.00	4, 380.00
Villalba	Two rooms concrete school building	4, 000.00	3, 921.00	3, 921.00
Yauco	Construction of a Fire Station Building, Civilian Defense	4, 950.00	4, 820.00	4, 820.00
Yabucoa	Construction of a Fire Station Building, Civilian Defense	4, 164.84	4, 064.84	4, 064.84
	CONTRACTS WITH TOTALS OF	$348, 773.30	$337, 319.97	$350, 106.97

APPROPRIATION FOR THE MAINTENANCE AND REPAIRS OF PUBLIC BUILDINGS EXPENDITURES DURING FISCAL YEAR 1943–44

Building	Amount Expended
Annex to the USO Building	$527.27
Communications Authority	1,903.70
Auditor's Office	1,443.68
Carnegie Library	3,411.97
San Juan District Jail	2,336.14
Guayama District Jail	3,277.30
Ponce District Jail	1,061.65
Office of the Captain of the Port at Ponce	222.25
Industrial Commission	3,446.12
San Juan District Court	906.34
Aguadilla District Court	375.45
Arecibo District Court	311.75
Bayamón District Court	874.76
Guayama District Court	703.11
Humacao District Court	264.55
Ponce District Court	1,008.55
Insular Police General Headquarters	3,855.74
Insular Police Headquarters at Arecibo	467.17
Insular Police Headquarters at Mayagüez	228.10
Insular Police Headquarters at Ponce	225.85
Insular Police Headquarters at Puerta de Tierra	388.77
Insular Police Headquarters at Barrio Obrero	311.05
Insular Police Headquarters at Stop 19, Santurce	1,195.40
Insular Police Headquarters at San Juan	1,956.79
Department of Health, Central Office	14,774.24
Department of Justice, Central Office	684.73
Department of Agriculture and Commerce, Central Office	1,064.65
Department of Education, Central Office	2,307.81
Department of the Interior, Central Office	9,179.87
Department of Labor, Central Office	5,731.83
Insular Industrial School for Boys at Mayagüez	234.75
Ana Roqué de Duprey Industrial School for Girls at Ponce	1,053.30
Derkes School at Guayama	456.35
State Guard Building	873.42
Allen No. 6 Building	689.57
Malgor Building (Bacardí)	691.85
Income Tax Building (La Marina)	350.37
Casino de Ponce Building	368.02
Allen No. 4 Building	4,153.63
Bayamón District Hospital	2,909.19
Insular Home for Boys at Guaynabo	3,371.68
Insular Home for Girls at Santurce	1,218.49
Tuberculosis Hospital at Guayama	5,338.15

APPROPRIATION FOR THE MAINTENANCE AND REPAIRS OF PUBLIC BUILDINGS EXPENDITURES DURING FISCAL YEAR 1943–44—Continued.

Building	Amount Expended
Hornos Militares	345.15
Institute for the Blind Children at Santurce	1,585.95
Hospital for the Leper	223.15
Insular Hospital of Psychiatry	248.41
Executive Mansion	20,563.30
Tourist Information Office	407.21
Insular Procurement Office Building	2,757.56
Penitentiary	625.75
Fire Stations	810.05
Residence of the Commissioner of Health	3,902.26
Residence of the Attorney General	168.63
Residence of the Commissioner of Education	1,823.06
Residence of the Commissioner of the Interior	372.93
Executive Secretary's Office	873.30
Treasury Department	2,463.27
Public Health Unit at Puerta de Tierra, Stop 6	309.45
Public Health Unit at Santurce	190.84
Public Health Unit at Guaynabo	663.61
Public Health Unit at Guayama	510.75
Total	$125,000.00

PROJECTS PREPARED BY PRIVATE ENGINEERS AND THE MUNICIPALITIES, EXAMINED FOR APPROVAL OF THIS DEPARTMENT

Town	Project	Estimated Cost
Aguadilla	Concrete street paving and construction of storm water sewers	$108,000.00
Cayey	Water supply system for "El Polvorin" Settlement	5,000.00
Cayey	Dismantling of all Buildings at Camp Borinquen, Guánica, P. R., and transportation of material for the Reconstruction and Enlargement of existing Building at C. C. Camp Guavate, Cayey, Puerto Rico.	13,000.00
Fajardo	Street paving and construction of sidewalks, curbs and gutters	51,000.00
Mayagüez	Street paving and construction of storm water sewers	243,241.29
Mayagüez	Construction of Market place	350,000.00
Mayagüez	Contruction of a Public Square	33,000.00
Salinas	Construction of a Concrete Building to serve as Recreational Hall, including Library and Auditorium.	92,500.00
Salinas	Street paving and construction of water supply system at "Coquí" Ward.	76,577.00
San Juan	Waterworks facilities—Contract No. 6 Intake channel and structures at Aguas Buenas.	302,810.00
	TOTAL ESTIMATED COST	$1,295,128.29

BUREAU OF PUBLIC LANDS AND ARCHIVES

The Bureau of Public Lands and Archives is in charge of the survey, control and leasing of lands belonging to The People of Puerto Rico, which originally belonged to the Crown of Spain and were ceded by the Government of the United States to the Insular Government to be administered for the benefit of The People of Puerto Rico, and also of those properties acquired through adjudication for non-payment of taxes.

It is in charge, also, of the old Spanish archives relating to lands, waters, forests, mines, harbors, concessions, public works and improvements.

This Division has under its care two hundred and twenty-five properties located in various municipalities of the Island, which have been acquired for non-payment of taxes.

Ten farms belonging to the Insular Government were leased to private parties during this fiscal year; the annual rent derived from them amounted to $1,334.42.

The total rent derived from government lands leased to private parties, for the year ended June 30, 1944, amounted to $41,507.79.

In this fiscal year 492 infractions to the Slum Prevention Act were reported, and of them 440 cases were friendly settled after the infractors removed their houses from the public lands. The remaining 52 cases were taken to the municipal courts where 4 of them were dismissed.

The following tracts of land were surveyed and laid out on the ground:

Two tracts of land at Guánica, one at Maricao and one at Patillas to be acquired by the Insular Forest Service of the Department of Agriculture.

Tract of land adjacent to the port of Luquillo, to be acquired for a National Park.

Tract of land, property of Mr. Gonzalo Aponte, at ward Boca de Cangrejos of Carolina.

Tract of land at San Juan, for the construction of a park.

Tract of land at Toa Baja to be occupied by a drainage channel, for the protection of the "Reyes Católicos" bridge.

Tract of land at Cayey, for the Hospital of Venereal diseases.

Tract of land at ward Guzmán Arriba of Luquillo, adjacent to the Caribbean National Forest.

Tract of land, for an athletic field, at Utuado.

Tract of land occupied by the Portugués River, at Ponce.

Tracts of land, known as lots No. 13 and 14, at Cangrejos Arriba, Carolina.

Tract of land occupied by the old railroad track connecting the towns of Río Piedras and Caguas, and adjacent to the farm of Antonio Monjil.

The boundaries between lands property of the People of Puerto Rico and the following private properties, were laid out on the ground:

Lands of Mr. Marcos T. Canejas at Guaynabo.

Lands of the Concrete Industries at Hato Rey, Río Piedras.

Lands of the American Railroad Company at Santurce, between Cerra and Duarte Streets.

Lands of Mr. Gonzalo Aponte at Boca de Cangrejos, Carolina.

Lands property of Bord Estate at ward Cangrejos Arriba, Carolina.

The following lots were measured and laid out on the ground:

Thirty-six lots of land at Cataño, to be ceded to laborers pursuant to Law No. 55, of the year 1923.

Forty-eight lots of land at Bda. Buena Vista, Hato Rey, Río Piedras.

Seventy-nine lots of land at Bdas. Amelia and Nueva Caparra of Guaynabo, to be ceded to laborers pursuant to Law No. 55, of the year 1923.

Lots of land for the fire prevention stations at Arecibo, Santurce and Río Piedras, with their topographical maps.

Lots of land to be sold to the Catholic Church at Ponce, pursuant to Law No. 106, of the year 1943.

Eighteen lots of land at the Laborers' Settlement at Santurce.

Twenty lots of land at Santurce, adjacent to the lands occupied by the Department of the Interior.

Three lots for roadmenders' houses, at Guaynabo and Río Piedras.

MISCELLANEOUS

Seventy-one deeds were prepared for the acquisition and conveyance of lands of the People of Puerto Rico.

This division informed 1863 cases in regard to private parties and 326 proceedings to record title, filed in the District and

Municipal Courts of the Island, which were forwarded by the Attorney General to this office, for information and study.

Fees collected for copies of public documents of these archives, issued by this Bureau to private parties, amounted to $11.

Pursuant to an act of the Legislature of Puerto Rico entitled ''An Act to authorize the Commissioner of the Interior to sell to poor families the mangroves in the southern portion of the town of Cataño'', approved in the year 1923, thirty-six titles of conveyance of lots have been expedited to persons that have reclaimed and improved them.

Tracing copies were prepared of the map of the metropolitan area, the loose-leaves of the rectangular coordinates of the Lambert system of the triangulation points of the geological survey of the Island of Puerto Rico; and the plans for the widening of Loíza Street.

This Bureau has cooperated with the Homestead Division of the Department of Labor in the field work concerning the survey and lay out of lots and farms ceded by said Division to different laborers all over the Island.

AUTOMOBILE AND TRAFFIC BUREAU

The Automobile and Traffic Bureau operates under the provisions of Act No. 55 approved April 27, 1942, as subsequently amended by Act No. 119 of May 12, 1943.

The purpose of the Law is to regulate the use of motor vehicles in Puerto Rico, and to regulate traffic on highways. The Bureau is entrusted with the issuance of licenses to motor vehicles and to drivers and Chauffeurs thereof, and to carry out all other work in connection with said activities.

INCOME

In accordance with Act No. 143 of May 15, 1937, as subsequently amended, the revenues collected from the fees for vehicles and drivers licenses are credited to the trust fund known as the ''Special Fund for the Survey, Construction and Maintenance of Highways, Roads and Bridges''. During the fiscal year 1943–1944 the amount of $932,050.08 was collected.

The following tabulation shows the sources of income:

DISTRIBUTION OF REVENUES

Source of Income	Number	Amount
1. Automobile licenses and number plates	27,648	$868,833.08
2. Dealer licenses	7	715.00
3. Chauffeur and operator licenses	4,144	16,372.00
4. Licenses for Non–resident operators	46	92.00
5. Duplicate ownership licenses	631	631.00
6. Duplicate driver licenses	1,595	1,595.00
7. Duplicate number plates	149	149.00
8. Automobile Transfers	6,990	6,990.00
9. Application for drivers examination	3,948	19,740.00
10. Applications for drivers re-examination	2,711	2,711.00
11. Learner Permits	7,669	14,222.00
Total income for the year 1943–44		$932,050.08
Total income for the year 1942–43		889,168.48
Increase		$42,881.60

CAR REGISTRATION

The total number of vehicles registered during this fiscal year totaled 27,648 as compared with 28,155 for the previous year, showing a decrease of 507 vehicles.

The following table shows the number of licenses for motor vehicles issued under the various denominations:

1. Private passenger cars	11,472
2. Public passenger cars	3,862
3. Insured Public passenger cars	2,047
4. Insular Government cars	504
5. Municipal Government cars	222
6. Commercial Motor vehicles	3,699
7. Heavy Motor vehicles	3,117
8. Heavy Public Motor vehicles	2,210
9. Tractors	129
10. Trailers	65
11. Private Motorcycles	217
12. Insular Government motorcycles	104
Total	27,648

It is to be noted that 388 new cars, including commercial vehicles, were registered, compared with 374 registered during the preceding fiscal year. The increase of 14 vehicles is due to the fact that priority requirements for the purchase of new motor vehicles have been greatly reduced. A survey made by this Bureau reveals that there are only 56 new cars in the hands of the dealers, at the present time, including touring cars and commercial vehicles.

DRIVER LICENSES

During the present fiscal year 6,659 applications for driver examinations were filed. Of those examined, 2,711 failed and 3,948 passed. During the year 4,144 licenses were issued to chauffeurs, operators and heavy motor vehicle operators. There were issued 7,664 learner permits, showing an increase of 3,220 over the preceding year.

MISCELLANEOUS ACTIVITIES

Frequently, applications are made for certificates as to motor vehicle ownership, or chauffeur's personal records for presentation before Courts of Justice, the Public Service Commission or other Governmental Agencies. A fee of $1.50 is charged in internal revenue stamps, for each certificate, and of these, 1,290 were issued, producing an income of $1,935. For the registration of each conditional sale contract a charge of 50 cents was collected, and there were 92 registrations. The amount collected from these fees is credited to the general funds of the Insular Treasury.

STATISTICS

Prior to the fiscal year 1937–38, the funds collected from the fees for automobile licenses and driver examinations were deposited in the general funds of the Insular Government, but starting that year the law provides that the money so collected, as well as that from the gasoline tax, shall be deposited in the ''Special Fund for the Survey, Construction and Maintenance of Roads, Highways and Bridges''.

The table below shows the annual income collected during the last 10 years:

COLLECTIONS

Year	Amount
1934–35	$509, 560. 86
1935–36	562, 161. 43
1936–37	592, 920. 12
1937–38	707, 052. 60
1938–39	732, 881. 35
1939–40	778, 897. 72
1940–41	929, 421. 59
1941–42	960, 265. 81
1942–43	889, 168. 48
1943–44	932, 250. 08

The following table shows the average fees and taxes collected for each motor vehicle as well as the average annual consumption of gasoline.

Fiscal Year	Average Fee per Passenger Car	Average Fee per Commercial Vehicle	Average Annual Gasoline Consumption per motor Vehicle	Average Gasoline Tax per Motor Vehicle
	(Dollars)	(Dollars)	(Gallons)	(Dollars)
1937–38	25	42	1, 359	95
1938–39	25	39	1, 242	87
1939–40	22	37	1, 314	92
1940–41	23	32	1, 071	75
1941–42	22	38	1, 200	84
1942–43	29	38	1, 414	99
1943–44	27	41	1, 321	97

The year 1940–41 marks the minimum average annual consumption of gasoline per vehicle. This may be attributed to the fact that the gasoline reserves in the Island had been reduced by the effect of the war on the shipments of gasoline to the companies operating in the Island. Furthermore, the Island became a distribution center in the Caribbean and a great proportion of the incoming gasoline was exported, the amount remaining for public consumption being considerably reduced.

The year 1943–44 shows and average annual consumption of gasoline per vehicle lower than that of preceding year. This is due to the fact that restriction was more effective during the year. The increase in value corresponding to the commercial vehicle is explained by the fact that the registration for commercial motor vehicles increased in the amount of 568.

INSURANCE OF PUBLIC AUTOMOBILES

Act No. 33 of April 14, 1941 provided, for the first time in the history of this Bureau, for the insurance of those public automobiles considered as the working tools of their owners.

The total fee for these automobiles is $30, of which $1 shall be considered as the payment for the license and the remaining $29 as a premium on an insurance policy covering accidents caused to passengers traveling thereon and to third persons.

During the first year of the establishment of this insurance, 2,044 public automobiles were insured. During the fiscal year 1943–44 a total of 2,401 public cars were insured. The risks covered by the policy have been increased gradually by the Insurance Company due to the relatively small number of accidents and to the efforts of the Commissioner of the Interior and the Supply Committee of the Insular Bureau of Supplies.

During the year 1941–42, the public liability risks assumed were $2,000 for one person in one accident and $4,000 for the limit of 10 persons in one accident. The risks to be covered in the coming fiscal year of 1944–45 will be $5,000 for one person in one accident and $10,000 for the limit of 10 persons in one accident. The total premium paid by the Treasurer of Puerto Rico to the United States Casualty Company, for the general policy, amounted to $70,102.50 for the fiscal year 1943–44.

Only 452 accidents of the public insured automobiles were reported and, correspondingly, the same number of claims for compensation were filed with the Surety Company.

Act No. 55 of 1942, established that, in order to have the benefits of the insurance, the owner must drive his own car. However, the same law provides that the Municipal Judge and the Justice of the Peace, may issue temporary permits to other authorized persons to drive these vehicles in case of illness of their owners, and the Commissioner of the Interior is empowered to grant an extension of such permits upon written request of the owner.

Distribution of Vehicle Licenses

The new system conceived last year by the Commisioner of the Interior for the distribution of licenses was improved this year and worked so well and so smoothly, that the same was praised by the public and the Press. It is generally agreed that never before, in the history of the Department, the issuance of automobiles plates and licenses had been made so promptly and without the usual inconveniences to the public.

The following tabulation shows the distribution, by cities, of motor vehicle licenses, as of June 30th, 1944.

1. Adjuntas	171
2. Aguada	50
3. Aguadilla	577
4. Aguas Buenas	63
5. Aibonito	132
6. Añasco	107
7. Arecibo	1,109
8. Arroyo	126
9. Barceloneta	141
10. Barranquitas	98
11. Bayamón	866
12. Cabo Rojo	294
13. Caguas	860
14. Camuy	147
15. Carolina	254
16. Cataño	213
17. Cayey	313
18. Ceiba	76
19. Ciales	137
20. Cidra	86
21. Coamo	149
22. Comerío	90
23. Corozal	214
24. Culebra	0
25. Dorado	68
26. Fajardo	303
27. Guánica	173
28. Guayama	420
29. Guayanilla	134
30. Guaynabo	175
31. Gurabo	71
32. Hatillo	120
33. Hormigueros	58
34. Humacao	312
35. Isabela	202
36. Jayuya	108
37. Juana Díaz	160
38. Juncos	229
39. Lajas	118
40. Lares	203
41. Las Marías	21
42. Las Piedras	60
43. Loíza	208
44. Luquillo	57
45. Manatí	345
46. Maricao	45
47. Maunabo	56
48. Mayagüez	1,463
49. Moca	65
50. Morovis	95
51. Naguabo	152
52. Naranjito	56
53. Orocovis	88
54. Patillas	47
55. Peñuelas	83
56. Ponce	1,953
57. Quebradillas	159
58. Rincón	38
59. Río Grande	129
60. Río Piedras	2,811
61. Sabana Grande	148
62. Salinas	280
63. San Germán	281
64. San Juan	3,401

65. San Lorenzo	156
66. San Sebastián	269
67. Santa Isabel	56
68. Toa Alta	105
69. Toa Baja	108
70. Trujillo Alto	144
71. Utuado	192
72. Vega Alta	137
73. Vega Baja	313
74. Vieques	90
75. Villalba	63
76. Yabucoa	96
77. Yauco	309
78. Santurce	4, 442
Total	27, 648

BUREAU OF MINES

The work done by this Bureau during the fiscal year under review, compares favorably with that of .the other divisions and bureaus of the Department. Special mention should be made of the important activities related to the war effort, the realization of which was possible only through the decided cooperation given by the Commissioner of the Interior.

With an appropriation of $36,000: $20,000 to cover general expenses and $16,000 for salaries, this Bureau realized the work hereinafter described.

War Effort Activities

For their importance, preferential attention will be given to these activities. The Bureau's cooperation to the war effort, as requested, is shown in the following program: Compilation of statistics about the production of sand, gravel and stone in Insular Government Projects; compilation of statistics relative to war emergency regulations on explosives and their ingredients; supervision of the used metals recollection; special investigation about aluminium, tungsten, cadmium, tin, nickel and columbium mines; and perparation of a Mine Coordination Program under the War Production Board.

A production of 178,864 cubic meters of stone, with a total value of $429,216, and 8,782 cubic meters of sand and gravel, valued at $20,624, was informed. Name and address of all contractors who furnished these materials was informed also.

Report about explosives will not be finished until next month, as it will contain abundant detailed information which we have had to secure from other sources. The purpose of this report is to supply the Federal Bureau of Mines with all necessary data to arrive at conclusions and to formulate recommendations as to the most effective way to regulate the manufacture, purchase, sale, possession, storage and distribution of explosives and their ingredients. It is hoped that once the report be submitted, arrangements will be made to inform regularly the Federal Bureau of Mines, and that our Organization will be given full control of this matter.

Although the best part of our effort in the collection of scrap material for the war effort, was made during the last fiscal year, at present we are acting as consultants for the insular office of the Civil Defense in connection with this work. Up to this date Puerto Rico has contributed with 30,050 tons of scrap material, of which 13,000 tons have been shipped, 5,050 tons have been used by local foundries and the remainder is waiting for shipping facilities.

During the present year the mining engineer visited several places, on research work, to determine the existence of bauxita and scheelita, minerals from which aluminium and tungten, respectively, are obtained. An expert engineer from the Republic Mining Corporation, of New York, accompanied our mining engineer in the investigations for bauxita. Up to the present, results have proved to be unsatisfactory; but there is the possibility that this mineral be present in some other parts of the island that have not been explored as yet. Recently we obtained a modern equipment for the identification of tungsten ore and, literally, we are sifting the island without practical results. At Ciales, tin has been found combined with lead, but we have not determined, as yet, the amount available, and the metallurgical problem of separating one mineral from the other remains unsolved. At ''Las Mesas'', in Mayagüez, an average of 1 per cent of nickel has been found mixed with the iron. This deposit is estimated at about 200,000,000 tons, of which approximately 2,000,000 tons would be nickel. The same problem of separating metals prevails here. An investigation project, at a cost of about $200,000, will probably solve this metallurgical problem, with great benefit to the people of Puerto Rico.

This office is cooperating with the War Production Board in the classification of quarry and mine enterprisers to determine their priority rights to obtain materials and equipment. A list of mine enterprises, certified to date, follows:

Puerto Rico Salt Works, Inc.,
7 Comercio St., Playa Mayagüez.
Serial Number 53-1.

Guillermo Rodríguez,
Apartado 1,
Mayagüez, Puerto Rico.
Serial Number 53-2.

Agapito Padilla,
Apartado 12,
Cabo Rojo, Puerto Rico.
Serial Number 53-3.

Javier Wiscovich,
Apartado 221,
Cabo Rojo, Puerto Rico.
Serial Number 53-4.

Julio Agraít,
Apartado 169,
Cabo Rojo, Puerto Rico.
Serial Number 53–5.

Fido Antommarchi,
Yauco, Puerto Rico.
Serial Number 53–6.

South Puerto Rico Sugar Company,
Ensenada, Puerto Rico.
Serial Number 53–7.

Jorge Bird Arias,
Fajardo, Puerto Rico.
Serial Number 53–8.

Puerto Rico Cement Corporation,
Barrio Sabana, Cataño.
Serial Number 53–9.

E. H. Lathan Co.,
Apartado 111,
Trujillo, Puerto Rico.
Serial Number 53–10.

Puerto Rico Bureau of Mines,
San Juan, Puerto Rico.
Serial Number 53–12T.

Industrial Development

Following in importance, comes our participation in the activities of industrial development realized, partly through the Development Office, to which important basic information has been furnished, relative to various industries; as well as with private concerns, to which the information available in our files has been given.

During the first six months of this year, about ⅔ of our funds and activities were given to the investigation of clay, kaolin and other similar substances, for the benefit of the Development Office. We are, at present, engaged in the preparation of a special report about the results of this investigation, and same will be soon complete and printed, once approved. The most important facts about this investigation are the following:

At the first deposit investigated, under the name of "Tortugo", located near Caguas, and comprising about 60 "cuerdas", careful boring tests were made. Seventy-nine samples were selected and submitted to different tests and assays. In general, the material is good for roof tiles and bricks, but recommendations for other industrial purposes are pending of final test results.

The second deposit investigated, under the name of ''Río Plantation'', is located near Bayamón (Hato Tejas ward), and consists mainly of plastic clay mixed with sand. It covers an area of about 28 ''cuerdas'', and the material varies from a white kaolin to a red clay. Seventy-six samples were selected and submitted to laboratory tests. Final results will be informed in the special report.

The third deposit investigated, under the name of ''Isla Verde Deposit'', covers an area of about 24 ''cuerdas''. The clay, generally of a yellowish color, seems to result from the desintegration of the granitic bed rocks. Boring explorations were made, after a 27″ layer of siliceous sand had been perforated. The average thickness of this deposit is 16 feet. Samples were submitted to laboratory tests, and final results will be informed in the special report. This deposit is considered the best one found up to date, and extraction of the material may be scientifically planned, drainage being the only difficult problem.

The fourth deposit investigated was that beloging to Mr. Fructuoso Ramos, of Caguas. Clay samples of this deposit proved to be unsatisfactory, even though its bed consists of a white feldspathic rock, which is being analized in our laboratory, because there are many possibilities as to its use in the manufacture of glassware and porcelain.

Preliminary investigations were made in two deposits, one in the farm of Mr. Caratini, at Coamo, and another in the farm of Mr. Vicenty, at Bayamón. Two other important deposits were not investigated for lack of time and money, one at Aguas Buenas and the other at San Germán. These and other deposits will be investigated next year. Emphatically we recommend that investigations of this nature, in the future, be under the absolute control of the Bureau.

Other substances already investigated, and about which information has been furnished to the Development Company, are sands of the northern coast and dolomite existing in various calcareous beds.

MARBLE

The program of native marble utilization may be considered as in full development. Investigations have shown the existence of a track of land about 4 kilometers long by 1 kilometer wide, running from Juana Díaz towards Villalba, which is very rich in cream marble, of good quality for industrial purposes. The thickness of this deposit has not been determined because of the lack of proper equipment, but its volume has been estimated and it is very large. Important deposits of marble with industrial value were found also in the following towns of the Island: gray marble at Trujillo Alto, rose marble at Corozal and Toa Baja, deep rose marble at Coamo, serpentine marble at Mayagüez and granite at Juncos. Our marble shop is well equipped, and we hope to continue investigations on this industry to that point when future development may be conducted by either the Government or private concerns.

EDUCATIONAL ACTIVITIES

Complying with the provisions of the law that created the Bureau of Mines, special attention has always been given to educational activities. Printed information, including pamphlets, maps and mineral collections, has been supplied to professionals and to the public in general, and a large number of samples received were analyzed in our laboratory during the year.

SUMMARY

Due to the fact that the year under review was a critical one, on account of the limitation of funds for the activities of the Bureau, the high cost of materials and equipment, the restrictions established by the War Production Board and the reduction of personnel, many were the difficulties met in the realization of our program.

The Bureau of Mines will be, in the very near future, an agency of great value to the community and to the Government. The perspective is good and no effort should be omitted to have our appropriation raised to $500,000 in the general budget for the coming fiscal year. We have already mentioned the metallurgical problem existing in the iron deposit at Mayagüez, the solution of which will require an expenditure of about $200,000. If in addition to this problem we consider the cost of exploitation of the deposits of magnetic iron at Juncos, of baryta at different places of the Island, the marble and ornamental stones, etc., it will be clearly seen that our estimate is not exaggerated.

In connection with the subsoil, we think advisable the complete revision of the Mining Law and the promulgation of new regulations to put it in force.

BUREAU OF HARBORS AND DOCKS

Collections in all ports of the Island of Puerto Rico amounted to $110,485.16 of which $72,891.37 were collected at San Juan Harbor and $37,593.79 at other ports. The San Juan Harbor's share, compared with last year's income shows an increase of $13,891.01 and other ports' total exceeds last years' by $853.40, which shows that activities, severely reduced by the years of emergency, are picking up again.

Tonnage and Vessels

A total of 761 vessels (613 steamers, 148 sails) with a gross tonnage of 1,607,235 tons, entered the port of San Juan. This shows an increase of 220 vessels with an increased tonnage of 76,288 tons, compared to last year's entries.

For statistical purposes, a new tabulation has been added to this report, showing data on collections, number and tonnage of the vessels arrived at the several ports of the Island of Puerto Rico, during the fiscal years from 1938–39 up to date. These data will have significant importance because it covers the period from the outbreak of World's War II forward.

Franchise Taxes

One of the duties of this office is to collect franchise taxes on all fuels imported by dealers, through our ports. The holders of these permits are:

Pyramid Products Inc., San Juan, P. R.
Texas Co., San Juan, P. R.
Shell Oil Co. (P. R.) Ltd., San Juan, P. R.
West India Oil Co., San Juan, P. R.

Stipulations of all these permits have not been strictly observed, in the past, by the different dealers.

The Shell Oil Co. (P. R.) Ltd. obtained its franchise No. 547 from the Public Service Commission in January 15, 1925. A tax of 3½ cents on each long ton (2,240 lbs. avoirdupois) of gasoline was compulsory, but the dealer has been paying only one cent ever since. The difference between the amount due and the amount paid during all these years was accounted for, demanded and collected the last month of this fiscal year. The sum of $6,213.88 covered such violations.

In case of the Pyramid Oil Co., the sum of $488.79 was also collected.

The West India Oil Co. has been accounted for and payment demanded for the amount of $2,633.02, and the claim against the Texas Oil Co. is $486.06, based on the same failure to comply with dispositions of their permits.

Pilots and Ships

Another duty of this Bureau is to move safely in and out, all vessels arriving at the ports of the island. Branch offices of this Bureau are located at all ports of Puerto Rico, and a dozen pilots are ready, night and day, for this special work. Out of 1,410 vessels moved one way or the other, at least 1,000 were safely and succesfully handled by our organization.

No pilots' fee collections had been recorded before in this office, but same was ordered since January of this year. Total fees, at San Juan, amounted to $15,578.64. This money was divided equally among the four pilots engaged, after running expenses were deducted. Figures on money collected by island pilots are not available yet.

Location of the Bureau

The Bureau of Docks and Harbors and Captain of the Port Office is a dependency of the Department of the Interior, located at Puerta de Tierra, at the entrance of Pier 12. The telephone number is 341 and that of the P. O. Box is 3143. All mail and particulars should be addressed to the above direction.

COLLECTIONS, TONNAGE AND NUMBER OF VESSELS ARRIVED AT THE SEVERAL PORTS OF THE ISLAND DURING THE FISCAL YEARS 1938–39 TO 1943–44

	1938–39	1939–40	1940–41	1941–42	1942–43	1943–44
Collections	$101, 259.39	$101, 487.88	$111, 803.81	$108, 736.15	$95, 740.75	$110, 485.16
Tonnage	10, 519, 918	9, 725, 672	8, 108, 577	6, 820, 705	2, 852, 202	2, 958, 150
Vessels	2, 582	2, 424	2, 047	1, 758	1, 097	1, 410

BUREAU OF HARBORS AND DOCKS COLLECTIONS AT THE SEVERAL PORTS OF THE ISLAND DURING THE FISCAL YEAR 1943-1944

Month	San Juan	Ponce	Mayagüez	Arecibo	Aguadilla	Guánica	Guayanilla	Humacao	Fajardo	Arroyo	Total
1943											
July	$5, 258.00	$797.33	$605.93			$284.15	$389.32	$227.25	$231.78	$408.26	$8, 202.02
August	5, 530.16	750.22	477.08		$0.25	412.88	152.69		20.00	357.08	7, 700.36
September	5, 734.02	1, 346.79	718.03			583.30	53.94			357.99	8, 794.07
October	4, 590.78	1, 015.16	592.26			566.20	73.76		30.00	661.12	7, 529.28
November	4, 903.32	866.52	740.19		4.75	794.59	410.09	227.75	5.00	549.08	8, 501.29
December	4, 855.47	1, 090.40	796.88		.25	508.81	37.87			718.30	8, 007.98
1944											
January	6, 704.13	537.63	847.46			936.74	241.53	214.80		708.54	10, 190.83
February	5, 616.02	358.01	413.30		.90	426.29	173.62	10.25	306.97	628.54	7, 933.90
March	5, 976.79	1, 064.84	963.55			712.04	177.89	120.64	134.49	453.22	9, 603.46
April	5, 678.94	1, 135.64	592.26			354.77	48.47				7, 810.08
May	8, 753.74	1, 216.00	901.68		1.20	450.16	70.10	65.53		1, 202.43	12, 660.84
June	9, 290.00	1, 867.21	1, 227.13				326.22	35.15		805.34	13, 551.05
Total	72, 891.37	12, 045.75	8, 875.75		7.35	6, 029.93	2, 155.50	901.37	728.24	6, 849.90	110, 485.16

NUMBER AND TONNAGE OF THE VESSELS ARRIVED AT THE SEVERAL PORTS OF THE ISLAND, DURING THE FISCAL YEAR ENDING JUNE 30, 1944

	San Juan		Ponce		Mayagüez		Arecibo		Aguadilla		Guánica		Guayanilla	
	Number	Gross Tonnage	Number	Gross Tonnage	Number	Gross Tonnage	Number	Gross Tonnage	Number	Gross Tonnage	Number	Gross Tonnage	Number	Gros Tonnage
AMERICAN:														
Steamers	241	1, 228, 650	78	284, 300	56	296, 255	......	......	......	......	29	171, 478	49	130, 203
Sailing Vessels	......	......	76	3, 452	......	......	......	......	......	......	......	......	31	1, 099
FOREIGN:														
Steamers	372	362, 206	88	125, 051	45	29, 221	......	......	......	......	9	9, 438	1	8, 027
Sailing Vessels	148	16, 379	77	12, 169	25	2, 945	......	......	4	191	......	......	......	......
TOTALS	761	1, 607, 235	319	424, 972	126	328, 421	......	......	4	191	38	180, 916	81	139, 329

	Arroyo		Humacao		Fajardo	
	Number	Gross Tonnage	Number	Gross Tonnage	Num. ber	Gross Tonnage
AMERICAN:						
Steamers	40	227, 629	5	25, 516	5	11, 597
Sailing Vessels	1	16	......	......	......	......
FOREIGN:						
Steamers	27	11, 968	......	......	......	......
Sailing Vessels	......	......	3	360	......	......
TOTALS	68	239, 613	8	25, 876	5	11, 597

RECAPITULATION

AMERICAN:			
Steamers	503	Tonnage	2, 375, 628
Sailing Vessels	108	Tonnage	4, 567
FOREIGN:			
Steamers	542	Tonnage	545, 911
Sailing Vessels	257	Tonnage	32, 044
TOTAL	1, 410	TOTAL	2, 958, 150

SAN JUAN HARBOR BOARD

The San Juan Harbor Board was established by Act No. 45, approved March 7, 1912, to supervise the construction of improvements in the San Juan harbor and to operate and maintain bulkheads constructed by the Insular Government at this port.

It is formed by the Commissioner of the Interior, who is the chairman, and the City Manager of San Juan, as ex-officio members; and three other members, export and import merchants, appointed by the Governor by and with the consent of the Senate, for a term of three years. The appointed members at present are Messrs. Americo Miranda, José S. Luciano and Manuel Z. Vicente.

The Board owns and operates 1,300 linear feet of uncovered bulkead, Piers 6, 12 and 13, and a concrete warehouse which is now under a lease contract.

Collections from wharfage, mooring, storage and other sources, amounting to $139,393.97, were higher than those of any previous year. Expenses, including purchase of unexpendable property, were $78,172.72, or $4,409.71 less than those of last year.

The Board held seven regular sessions during this year.

The following statement shows the receipts and disbursements made during this year:

WHARF AND HARBOR FUND, TRUST FUND

Balance as of June 30, 1943			$222,060.84
Addition for overcharges made during previous year			167.68
RECEIPTS FROM PIER NO. 6:			
Wharfage	$33,628.05		
Storage and Demurrage	1,231.42		
Mooring	5,362.51		
Sale of water	1,206.60		
Rent of space	600.00	$42,028.58	
RECEIPTS FROM PIERS NOS. 12 AND 13:			
Wharfage	$49,812.76		
Storage and Demurrage	8,600.46		
Mooring	7,502.76		
Sale of water	1,703.60		
Rent of space	1,380.00	$68,999.58	
RECEIPTS FROM OPEN BULKHEAD:			
Wharfage	$4,771.62		
Storage and Demurrage	716.66		
Mooring	908.53		
Sale of water	807.60		
Lease	1,346.20	8,550.61	
RECEIPTS FROM WAREHOUSE:			
Storage	$1,112.09		
Lease	4,505.00	5,617.09	
OTHER INCOMES:			
Rent of dragline and shovel	$7,960.00		
Electric current charged to steamship companies	632.37		
Truck service	312.00		
Fire pumper service	1,151.95		
Damages done to our properties and repaid by occasioners	141.00		
Shifting	423.79		
Recharging of bateries	6.00		
Technical services rendered to Arecibo harbor	3,571.00	14,198.11	139,393.97
TOTAL			$361,622.49
DISBURSEMENTS:			
OFFICE AND PIERS			
Salaries	$19,872.79		
Wages	15,209.04		
Office supplies	510.94		
Water for sale	1,304.97		
Water for service	69.61		
Light and Telephone	2,533.94		
Gasoline and motor supplies	431.60		
Unexpendable property	183.28		
Repairs and maintenance	1,172.55		
Fire and Hurricane Insurance Premium (prepaid for 5 years)	10,883.34		
State Fund Insurance Premium	257.24		
Traveling expenses	39.37		
Cartage	395.18		
Claims	522.30		
General expenses	1,654.28	$55,040.43	
ENGINEERING DIVISION:			
Salaries	$13,423.79		
Wages	2,744.19		
Office supplies	199.28		
Unexpendable property	5,581.90		
Gasoline and motor supplies	149.11	$22,098.27	
Telephone	103,31		
Traveling expenses	59.58		
General expenses	419.96		
Dragline expenses	451.17	1,034.02	
TOTAL DISBURSEMENTS			78,172.72
BALANCE AS OF JUNE 30, 1944			$283,449.77

SAN JUAN HARBOR FUND, TRUST FUND

Balance as of June 30, 1943		$246,432.60
Add Harbor dues collected at this port		72,012.35
TOTAL		$318,444.95
Less reimbursement to Waterman Steamship Corporation	$39.48	
Difference as per Auditor's book	0.68	40.16
BALANCE AS OF JUNE 30, 1944		$318,404.79

EXHIBIT NO. 1

COMPARATIVE STATEMENT SHOWING AMOUNTS COLLECTED DURING THE FOLLOWING FISCAL YEARS

Charges	1937–1938	1938–1939	1939–1940	1940–1941	1941–1942	1942–1943	1943–1944
Wharfage	$41,494.72	53,293.31	60,620.29	92,883.59	110,605.73	81,713.26	88,212.43
Storage	1,863.28	2,158.27	5,151.62	5,297.57	1,847.48	12,897.12	10,747.00
Demurrage					3.48	1,373.54	913.63
Mooring	11,152.97	12,886.00	11,495.25	14,525.23	15,058.55	15,291.52	13,773.80
Water	5,060.19	3,679.73	2,759.70	3,838.70	4,877.20	4,181.30	3,717.80
Lease	5,066.20	5,066.21	5,066.22	5,066.20	5,066.21	4,507.87	15,791.20
Other					.30	4,317.18	6,238.11
Totals	$64,637.36	77,083.52	85,093.08	121,611.29	137,458.95	124,281.79	139,393.97

EXHIBIT NO. 2

COMPARATIVE STATEMENT SHOWING COLLECTIONS OF CHARGES DURING THE FISCAL YEAR 1942–1943 1943–1944

	Wharfage		Demurrage & Storage		Mooring		Water		Other & Lease		Totals	
	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44
July	$7, 262.01	$8, 899.23	$365.15	$993.84	$909.33	$1, 472.08	$589.90	$449.10	$983.10	$914.65	$10, 109.49	$12, 728.90
August	6, 900.09	6, 098.14	1, 889.78	1, 894.39	1, 497.87	1, 054.21	460.20	410.20	314.00	564.01	11, 061.94	10, 020.95
September	8, 024.06	7, 016.59	716.89	640.32	1, 848.82	1, 680.78	663.70	432.20	314.00	265.05	11, 567.47	10, 034.94
October	4, 625.49	5, 102.88	3, 170.37	3, 346.57	1, 654.15	1, 000.71	346.40	90.50	419.46	377.53	10, 215.87	9, 918.19
November	7, 450.52	8, 266.35	832.20	723.98	1, 283.74	1, 070.96	143.90	409.10	342.00	466.58	10, 052.36	10, 936.97
December	8, 624.98	8, 035.56	1, 034.07	515.32	1, 900.16	1, 060.43	315.20	249.60	538.29	598.36	12, 412.70	10, 459.27
1944												
January	7, 494.05	5, 745.57	618.95	846.79	1, 176.77	843.18	157.30	324.50	1, 039.10	2, 285.11	10, 486.17	10, 045.15
February	5, 555.36	6, 822.37	1, 236.64	326.76	802.27	893.51	231.50	215.20	496.13	2, 272.52	8, 321.90	10, 530.36
March	5, 582.12	7, 654.24	368.78	170.97	1, 164.43	924.67	302.20	279.30	3, 266.84	1, 133.87	10, 684.37	10, 163.05
April	3, 386.35	7, 547.69	1, 318.06	644.16	552.51	1, 158.55	296.40	265.20	457.13	1, 206.75	6, 010.45	10, 822.35
May	5, 893.80	10, 287.85	1, 125.41	846.58	994.12	1, 438.71	351.30	317.90	376.62	7, 001.27	8, 741.25	19, 892.31
June	10, 914.43	6, 735.96	1, 594.36	710.95	1, 507.35	1, 176.01	323.30	275.00	278.38	4, 943.61	14, 617.82	13, 841.53
	$81, 713.26	$88, 212.43	$14, 270.66	$11, 660.63	$15, 291.52	$13, 773.80	$4, 181.30	$3, 717.80	$8, 825.05	$22, 029.31	$124, 281.79	$139, 393.97

EXHIBIT NO. 3

STATEMENT SHOWING COLLECTION OF CHARGES DURING FISCAL YEAR 1943–1944

Date	Wharfage	Storage	Demurrage	Mooring	Water	Lease	Other	Total
1943								
July	$8, 899.23	878.82	115.02	1, 472.08	449.10	838.10	76.55	12, 728.90
August	6, 098.14	1, 839.80	54.59	1, 054.21	410.20	165.00	399.01	10, 020.95
September	7, 016.59	592.64	47.68	1, 680.78	432.20	165.00	100.05	10, 034.94
October	5, 102.88	3, 345.71	0.86	1, 000.71	90.50	165.00	212.53	9, 918.19
November	8, 266.35	723.98		1, 070.96	409.10	165.00	301.58	10, 936.97
December	8, 035.56	515.32		1, 060.43	249.60	165.00	433.36	10, 459.27
1944								
January	5, 745.57	808.35	38.44	843.18	324.50	2, 148.10	137.01	10, 045.15
February	6, 822.37	275.74	51.02	893.51	215.20	2, 066.00	206.52	10, 530.36
March	7, 654.24	148.63	22.34	924.67	279.30	1, 066.00	67.87	10, 163.05
April	7, 547.69	619.96	24.20	1, 158.55	265.20	1, 066.00	149.75	10, 822.35
May	10, 287.85	699.97	146.61	1, 438.71	317.90	6. 716.00	285.27	19, 892.31
June	6, 735.96	298.08	412.87	1, 176.01	275.00	1, 066.00	3, 877.61	13, 841.53
Totals	$88, 212.43	10, 747.00	913.63	13, 773.80	3, 717.80	15, 791.20	6, 238.11	139, 393.97

TABLE No. 1 (From Exhibit No. 3)

STATEMENT SHOWING CARGO LOADED AND UNLOADED THROUGH THE BULKHEADS AND SHEDS AND AMOUNT COLLECTED ON WHARFAGE

Months	Packages	General Cargo		Collected General Cargo	Lumber	Collected Lumber	Fuel Oil, Gasoline & Diesel Oil		Total Collected 1943–1944
		Weight in pounds	Measure in Cubic Feet		Superficial Feet		Tons	Collected	
1943									
July	355, 688	38, 130, 431		$3, 317. 24					
	280, 742		861, 919	5, 262. 07	914, 008	$319. 92			$8, 899. 23
August	125, 096	14, 633, 152		1, 585. 62					
	168, 794		440, 755	3, 862. 26	1, 177, 743	412. 24	6, 746. 75	$238. 02	6, 098. 14
September	187, 810	24, 867, 009		2, 479. 36					
	173, 045		417, 290	3, 708. 76	1, 738, 673	629. 51	5, 704. 43	198. 96	7, 016. 59
October	60, 811	17, 758, 986		1, 763. 49					
	105, 575		357, 877	2, 753. 34	1, 544, 098	542. 73	1, 224. 83	43. 32	5, 102. 88
November	295, 919	33, 009, 110		3, 387. 87					
	222, 183		555, 829	4, 285. 75	1, 690, 237	592. 73			8, 266. 35
December	371, 717	41, 158, 502		4, 154. 67					
	192, 867		679, 391	3, 332. 60	1, 565, 068	547. 78	14. 50	. 51	8, 035, 56
1944									
January	360, 532	38, 063, 854		3, 774. 85					
	94, 125		221, 793	1, 646. 55	926. 120	324. 17			5, 745. 57
February	151, 793	12, 183, 738		1, 542. 56					
	283, 036		592, 659	5, 187. 84	250, 225	87. 59	125. 08	4. 38	6, 822. 37
March	212, 273	20, 255, 732		2, 045, 82					
	265, 224		589, 498	5, 156. 27	1, 291, 369	452. 15			7, 654. 24
April	360, 342	37, 440, 992		3, 743. 99					
	164, 789		468, 178	3, 356. 74	677, 003	236. 93	5, 999. 74	210. 00	7, 547. 69
May	413, 184	42, 359, 466		4, 206. 14					
	187, 670		632, 473	5, 110. 62	2, 672, 695	935. 49	1, 017. 21	35. 60	10, 287. 85
June	355, 474	34, 139, 282		3, 335. 57					
	129, 503		356, 394	2, 602. 48	2, 279, 647	797. 91			6, 735. 96
TOTALS	3, 250, 639	354, 000, 254		$35, 337. 18					
	2, 267, 553		6, 174, 056	46, 265. 28	16, 726, 886	$5, 879. 18	20, 832. 54	$730. 79	$88, 212. 43

TABLE No. 2 (From Exhibit No. 3)

STATEMENT SHOWING MERCHANDISE STORED AT OUR BULKHEADS AND AMOUNT COLLECTED FOR STORAGE CHARGES FISCAL YEAR 1943–1944

Merchandise	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	Totals
Asphalt	$88.58					.40					298.80		387.78
Bottles & caps	.18	18.99	66.85	1.08			19.44	3.78			2.78		113.10
Canned Goods	75.64					22.88	1.33	2.07		18.10	.68	.81	121.51
Cotton Goods	84.73	291.33	14.21	3.22	3.69	25.52	9.25	14.49			.66	.51	447.61
Drugs & Medicines	5.26		8.92	.97	4.44			37.28					56.87
Electric Supplies	4.66	27.38	5.30	.40		4.44	1.92	.49		13.58			58.17
Flour		275.61		13.07			.75						289.43
Glassware & Mirrors	1.40	3.74	13.84	.38	6.00	31.59	17.07	8.84	.90	3.51		1.30	88.57
Lumber	24.04	455.24	150.83	2,252.56	149.78	83.17	513.50	80.93	25.64	.60	123.03	78.30	3,938.62
Machinery	4.47	11.24		.62	.57	3.09	7.39			266.11	162.00	65.92	521.41
Oats	1.25	28.58				111.47	25.91	4.01		1.53			172.75
Oil & Gasoline	17.71	15.40	4.83	4.70				.45		80.70			123.79
Paper & Paper Goods	12.88	41.29	16.39	4.08	18.19	65.64	54.24	23.34	74.06	4.90			315.01
Poles	12.60		14.33	712.25		41.42	27.78	21.24			32.60		862.22
Shoes	21.63	59.06	5.78	10.12	39.47	3.13	3.78	14.15					157.12
St. bars & plates	80.01	139.19	95.97	5.46	404.85	2.24	8.01	32.82	4.87	39.70		7.20	820.32
Tobacco & Cigarette	56.37	50.91	11.49	2.99	17.52		.23			15.98			155.49
Various	387.41	421.84	183.90	332.81	79.47	120.33	117.75	31.85	43.16	175.25	79.42	144.04	2,117.23
Totals	$878.82	1,839.80	592.64	3,345.71	723.98	515.32	808.35	275.74	148.63	619.96	699.97	298.08	10,747.00

TABLE No. 3 (From Exhibit No. 3)

STATEMENT SHOWING THE KIND OF VESSEL THAT MOORED AT THE BULKHEAD AND SHEDS AND AMOUNT COLLECTED FOR MOORING CHARGES

FISCAL YEAR 1943–1944

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	April	May	June	Totals
Steam vessels	$1,438.35	979.71	1,623.10	857.18	1,040.51	1,015.42	828.22	850.96	879.12	1,126.21	1,398.34	1,126.51	13,163.63
Sail vessels	32.50	74.50	33.09	78.84	28.95	38.80	1.94	42.55	43.97	32.34	28.69	49.50	485.67
Harbor Crafts	1.23		24.59	64.69	1.50	6.21	13.02		1.58		11.68		124.50
Totals	$1,472.08	1,054.21	1,680.78	1,000.71	1,070.96	1,060.43	843.18	893.51	924.67	1,158.55	1,438.71	1,176.01	13,773.80

SAN JUAN HARBOR BOARD

ENGINEERING DIVISION FOR PIERS AND HARBORS

Activities of the Engineering Division for Piers and Harbors have been greatly curtailed by present war conditions, mostly because of the difficulties met in securing materials necessary for the execution of certain projects which have been under consideration for several years, and which, otherwise, would have been started and in progress.

Such is the case with projects for the extension of Wharf No. 12, and construction of Pier No. 4, both for the San Juan Harbor Board, and reconstruction of the Ponce Bulkhead Wharf as recommended by the Waterways Experiment Station at Vicksburg, Mississsippi, in a report submitted to the Commissioner of the Interior a few months ago.

The Arecibo Harbor Improvement Project, on the other hand, has been progressing, and dredging of the harbor, under the direction of the War Department, was finished on May, 1944. Construction of an adequate landing pier or marginal wharf is contemplated in the very near future, but final location of the structure, which may be considered of a temporary nature, has not been selected pending revision of the harbor project as a whole, as requested from River and Harbors Committee, Washington, D. C., on April 25, 1944, through the Director of Island and Insular Possessions, Mr. B. W. Thoron.

So far, all work done by the Insular Government on this project has been directly connected with the dredging operations and has consisted chiefly of the construction and maintenance of levees to retain the dredged material, including construction of a provisional dirt road for the U. S. Coast Guard Service at Arecibo.

Soil investigations were performed by the U. S. Engineer Department, at the request of this office, and core borings were made along the bulkhead line and on the north edge of the turning basin. Samples of soil were obtained from each boring and are available for inspection and study at our office. We are now ready to start pile driving investigations consisting in the driving of two 14″ × 30# sheet piles, two 8″ × 20# H-Columns and two 14″ × 14″ reinforced concrete piles.

Considering that construction of a provisional wharf 400 ft. long, as approved by the War Department, will take several months, and taking into account the fact that there is an urgent need of some kind of a shipping terminal at this port, it was decided to build a small lighterage wharf, 150 ft. long, about 70 ft. inshore of the bulkhead line. Construction of this temporary structure started almost at the close of this fiscal year.

The work accomplished by this Division during the fiscal year just ended is shown below:

1.	Resurfacing of Matías Ledesma, Tadeo de Rivera and Marginal Streets in the vicinity of Piers Nos. 12 and 13 at Puerta de Tierra	$9,971.00
2.	Construction and Maintenance of Levees to retain dredged material in the disposal areas of the Arecibo Harbor	21,496.94
3.	Purchase, transportation and storage of 294,200 board feet of lumber from the Luquillo Forest Reservation to the Arecibo Harbor, to be used in the construction of a provisional bulkhead wharf 400 feet long	24,530.00
4.	Construction of a temporary lighterage wharf 150 feet long, 70 feet inshore of the bulkhead line, at the Arecibo Harbor	2,250.00
5.	Purchase and transportation of materials for the installation of automatic traffic signals at street crossings in Santurce, Hato Rey and Bayamón	236.00
6.	Purchase of material and equipment in connection with project for providing inhabitants of rural zone of Utuado in the vicinity of Dos Bocas Reservoir, with means of transportation over area flooded by said reservoir	2,214.91
7.	Repairs to roof of transit shed, Pier No. 6	520.96
8.	Repairing and fixing 50 loose fender piles, Pier No. 6	274.58
9.	Painting fence around freight yards belonging to Piers Nos. 12 and 13	574.25
10.	Laying new pipe line between Piers Nos. 12 and 13 at Puerta de Tierra for supplying water directly to ships	50.98
11.	Resurfacing platform Nos. 12 and 13	549.20
12.	Repairs to general equipment owned and operated by the San Juan Harbord Board	428.14
13.	Core boring investigations at Arecibo Harbor	3,617.90

The following projects were prepared by this Division:

1.	Project for promenade walk known as the ''Paseo de San Juan'', extending from the east end of Princesa St. along the foot of the old Morro Wall, a total of 1,486 ft., Estimated cost	$150,000.00
2.	Project for providing ferry transportation at Dos Bocas Reservoir, to take over traffic from roads now flooded by the reservoir, Estimated cost	20,516.00

3. Project for the construction of a fishing pier at the Port of Fajardo, to be used by the Insular Department of Agriculture and Commerce. This work is to be done under contract, at a cost of	5,000.00
4. Project for the construction of a provisional bulkhead wharf for lighterage service at the Arecibo Harbor	7,000.00

The following Reports were submitted:

1. Report to the Insular Planning Board on the six year Expenditure Program, covering work to be done in harbor improvements at San Juan and over the Island.
2. Survey and Report on installation of automatic traffic signals at street intersections in Santurce, Hato Rey and Bayamón.
3. Report on the safety conditions of bleachers in the Sixto Escobar Base Ball Stadium at San Juan.
4. Report on the damages caused by sea action to dwellings at ''La Puntilla'', town of Cataño.
5. Report submitted to the Treasurer of Puerto Rico on the calibration of fuel tanks in connection with the enforcement of Act 217 of May 12, 1942 of our Legislature.
6. Report on claims filed by Contractor of the Reyes Católicos Bridge demanding compensation for additional expenses incurred by him under said contract.
7. Report to the Commissioner of the Interior with reference to conditions observed at the Arecibo Harbor, which are considered unfavorable to shipping facilities.
8. Reports to the Commissioner of the Interior on conditions affecting discharge of the Arecibo River into the ocean.

Additional work done by this office:

1. Revision of the project for Fire Prevention at the Building of the Department of the Interior.
2. Request of priority ratings for the purchase of critical war material, to start construction of projects during this fiscal year.

The Chief Engineer of the Division, Mr. Luis M. Guillermety, acted as Director of the Insular Parks Service from February 21, up to March 31, 1943, after which date he was granted a six month leave of absence to accept the position of Executive Director and Secretary of the Design Committee, an insular organization recently created.

AERIAL TOPOGRAPHIC SECTION

During this Fiscal Year 1943–44, the Aerial Topographic Map Office has furnished the Federal, Insular and Municipal Agencies with topographic maps, aerial photographs and mosaics, and with all the control data that there is available. These series have been given almost exclusively to the above mentioned agencies, as the release of these documents to the public is restricted by the War Department.

TOPOGRAPHIC MAP

During the months of July to November 1943, the U. S. Geological Survey had 9 survey parties finishing the 15 quadrangles covering the central part of the Island. With this job, the field work on the topographic map was completed.

The office work needed to have the whole map ready for publication, is being done at Washington, by the U. S. Geological Survey.

This Department contributed to the cost of this work with the amount of $24,699.70.

FINANCIAL STATEMENT

Balance on June 30, 1943	$383.57	
Amount reimbursed to Appropriation No. 389	82.89	
Balance on June 30, 1944		466.46
	$466.46	$466.46

PARKS COMMISSION AND SERVICE OF PARKS AND RECREATION

''Artists in verse, painting, sculpture, landscape architecture, have expressed the belief that the Giver of all good things esteemed the life of man in a garden the happiest that could be given. The creation of the Garden Eden, the Elysian Fields, the Vale of Cashmere, and the Hanging Gardens of Babylon, bear idealistic or practical testimony to the human desire for vision of verdure and foliage. It is the popular notion that the garden builders of antiquity ministered chiefly to the delight of poets, students, philosophers, statesmen, and brainweary professors. The park or garden, in its modern aspect and under the sway of progressive humanity, has come to be regarded as a place where the weary, whether weary of headwork or handwork, may be refreshed by breathing pure air, gladdened by the sight of flowers and trees, and solaced by the sound of running waters''.

OLD PARKS AND NEW

Contrary to the Europeans, the great pioneer park planners and builders in American had no great difficulty in defining a park. The term then had a definite technical and functional connotation. Elliot defined parks to be ''lands intended and appropriated for the recreation of the people by means of their rural, sylvan, and natural scenery and character''. Olmsted, Sr., stated the nature and functions of a true park as a place where the urban inhabitants can to the fullest extent obtain the genuine recreation coming from the peaceful enjoyment of an idealized rural landscape in rest giving contrast to their wonted existence amidst the city turmoil''.

At the close of the first part of the twentieth century it is not so easy to state the nature and function of that conglomerate aggregation of properties found in a modern, well developed park system. The term ''park'' has been applied to many different kinds of properties which the original meaning of the term did not comprehend. As long ago as the eighties, Elliot protested against the growing tendency towards an almost universal abuse of the term ''park'' in that it was being applied to every kind of public property.

During the past twenty five years the confusion in terminology has become even more marked. The term ''park'' came to be applied not only to plazas, squares, ovals, triangles, walks and public gardens, but to other kinds of areas which functionally were the direct apposite to the "peaceful enjoyment of an idealized rural landscape". Even the great masterpieces created by Olmsted and other of the pioneers in park design and construction had in many instances been trasformed from places where "city dwellers could secure the genuine recreation coming from the peaceful enjoyment of an idealized rural landscape", into active recreation areas. Beautiful, broad open lawns had been adapted for base ball diamonds; the modern motor car had usurped the pleasant horse and buggy driveway, destroying the restful atmosphere of the area, and in many instances the amusement apparatus of the commercial park had been permitted entrance.

The type of recreation advocated in those days was fundamentally sound then, specially as it refers to city dwelling people. It is of even greater importance to-day. Cities have grown larger and the stress and strain of living become greater.

This particular phase of the teaching of the great, early planners should never be discarded in all present and future planning of parks.

But it is evident that the different needs of the everyday citizen which can be expressed in their leisure are far wider than those found in the early conception, and all kinds of active and semi-active forms of recreation have come to be included.

The trend in Puerto Rico is very much this way. There is not a single park, no matter how small, that does not have court, a play ground or some sort of active recreation facility.

Both the Parks Commission of the City of San Juan and the Service of Parks and Recreation, have accomplished very much towards this end. Most or practically all of the work performed by the Service of parks through the Island is of an active type.

At San Juan, very much was done in renovating the Park gardens, and a great deal was furnished in material and technical supervision to the landscape work undertaken by the armed forces in their camps and offices. Next year's program includes gardens, landscaping and all different sorts of embellishment. This will represent forty percent of the new work.

So we can say that more active recreational facilities are needed in San Juan, while there should be more of landscaping and gardening in the projects throughout the Island.

Our limiting factor is the scarcity of land available for parks. Most of the useful land is too expensive and difficult to obtain. All low land in the vicinity of large towns should be obtained by purchase or expropriation and filled later with sanitation disposal material. Controlled dumping in future park areas is expensive, but very satisfactory, provided that the work is properly planned and supervised.

This will increase the percentage of park area in proportion to population.

The importance of parks and recreation can scarcely be overstressed. In Puerto Rico it has never been seriously considered as something essential to the health and stability of the community. Juvenile delinquency is increasing and has been studied and tackled from many different angles. The Department of Justice and the Department of Health and Social Service have coordinated programs in order to reduce it, but recreation has never been even mentioned as a solution. Recreation is yet far from being, here, generally accepted as one of the most effective methods of social prophylaxis.

''This is a poor community'', is has been said, ''we need hospitals, schools, public health services, etc.'', but for parks the appropriations have always been very limited. There was always the need of a Service of Parks that could prepare a scientific and well oriented program of public recreation. There is the immediate need of a well organized educational publicity campaign that will make, not only the public, but the members of our Legislature, park conscious.

In spite of a dry spell of over one hundred days, the gardens of the Muñoz Rivera Park and the other ''plazas'' under our jurisdiction were properly cared and old dry sections renovated. Some of the old Australian pines, planted to serve as wind breakers, in order that the vegetation inside the park could grow, were removed. Part of the area occupied by the coast artillery battery of the U. S. Army, was returned and a considerable amount of clearing and grading was done. This will provide space for two more base ball diamonds, which are so urgently needed to meet the demand for fields. The air-raid shelters within the park grounds were all removed and filled and plans for the reconstruction of the gardens in this area are in progress. Plans for the reconstruction of the Sixto Escobar Park are complete and expect to be under progress sometime in September.

Recreation:

Due to the relaxation of the gasoline restrictions, in the greater part of this year, the attendance to our parks was considerably increased. At the Sixto Escobar Stadium we had a total attendance of 189,719 persons which is the largest annual attendance ever attained. Besides professional and amateur Base Ball, Boxing and Field Days, this figure includes all other spectacles of public interest, such as conventions, horse shows, etc.

Parkgrounds, walks, pergolas, etc., were used for kermesses, parties and for charity bazaars.

Concessions:

Income from the leasing of facilities and from the percentage of the gate of the Sixto Escobar Stadium amounted to $7,289.14 as compared with $5,185.71 of previous year.

Park Police:

By the last part of the year, the police force of the parks was uniformed and three shifts of eight hours established. This improved very much the general attitude of the visitors towards the guards, as well as that of the enlisted men who are such assiduous visitors of our parks.

Insular Service of Parks:

In spite of the lack of land available for parks and of the very limited funds of the Insular Service, Base Ball fields, Soft Ball fields, Basket Ball courts and Volley Ball courts were constructed in fifteen municipalities.

A total of 275 cubic meters of reinforced concrete were poured and 2201 cubic meters of plain concrete for floors of courts. As most of the work was performed in low lands and in sloping terrain, fills and excavations amounted to 60,360 cubic meters and 48,521 cubic meters respectively.

An Island wide project, with the War Emergency Program, of $155,375.78 is already approved and will start functioning as soon as the War Emergency Program case is decided by the District Court for Puerto Rico, at Boston. This will furnish approximately 69,190 man days of labor.

PROJECTS CONSTRUCTED BY THE SERVICE OF PARKS AND RECREATION FOR THE YEAR 1943–1944

Municipalities	Basket Ball Courts	Base Ball Fields	Tracks	Volley Ball Courts	Tennis Courts
Aibonito		2			
Arecibo	1				
Barceloneta		2			
Bayamón	1				
Cayey		1			
Cidra	1			1	
Guánica	1	1	1		
Manatí	1	1			
Orocovis	1			1	
Patillas	1				
Peñuelas	1				
Ponce	3	1			
Río Grande		1			
Río Piedras	2			2	1
Sábana Grande	1	1			
San Germán	1				
San Lorenzo	1			1	
Tallaboa		1			
Toa Baja		2			
Trujillo Alto	1			1	
TOTALS	17	13	1	6	1

SIXTO ESCOBAR PARK

BASE BALL PROFESSIONAL SEASON 1943–44

Date	Games	Gross Income		Rent
1943				
October 31	2	$4,721.40		$94.43
Average Gross Income per Game			$2,360.70	
November 7	2	3,617.45		72.36
November 14	2	4,537.45		90.74
November 21	2	3,943.20		78.86
November 28	2	5,429.10		108.58
	8	$17,527.20		$350.54
Average Gross Income per Game			$2,190.90	
December 5	2	$1,789.75		35.98
December 12	2	2,547.10		50.95
December 19	2	1,915.50		38.31
December 26	2	2,256.95		45.14
	8	$8,518.30		$170.38
Average Gross Income per Game			$1,064.79	
1944				
January 2	2	$1,842.45		$36.85
January 6	1	865.25		17.30
January 9	2	4,025.55		80.51
January 16	2	830.35		16.61
January 23	2	1,850.75		37.01
January 30	2	1,577.60		31.55
	11	$10,991.95		$219.88
Average Gross Income per Game			$1,002.90	
February 6	2	$2,362.40		$47.25
February 13	2	1,825.20		29.01
February 20	2	3,318.83		51.77
February 27	2	2,226.79		35.39
	8	$9,733.22		$163.42
Average Gross Income per Game			$1,216.69	
March 5	2	$1,800.61		$28.62
March 12	2	1,448.17		23.00
March 19	2	2,094.60		33.27
March 26	2	1,168.71		18.56
	8	$6,512.09		$103.45
Average Gross Income per Game			$814.01	
Total Rent 2%				$1,102.05
Total Gross Income				58,044.16
Total Number ot Games				45

SIXTO ESCOBAR PARK

BOXING PROFESSIONAL

Date	Gross Income	Average Income per Bout
July 4	$1,306.50	
July 24	104.50	
July 30	259.40	
	$1,670.40	$556.80
August 6	357.80	
August 13	334.50	
	$692.30	$346.15
Total Gross Income		$2,362.70

AMATEUR BASE BALL

Month	Days of Games	No. of Games	Total Attendance	Average Games per Day	Attendance for Games	Attendance per Days
July	24	44	5,998	1.83	136	250
August	18	25	4,520	1.39	181	251
September	22	32	4,424	1.45	138	201
October	22	27	10,624	1.23	393	483
November	14	18	2,050	1.29	114	146
December	24	38	4,775	1.58	126	199
Total	124	184	32,391			
Total of participant players			3,892			

SIXTO ESCOBAR PARK

BOXING AMATEUR SEASON

Date	Gross Income	
July 16	$165.05	
July 21	125.75	
July 29	134.65	
	$425.45	
Average Income per Bout		$141.82
August 4	91.70	
August 11	213.20	
August 18	167.00	
August 25	122.95	
	$594.85	
Average Income per Bout		$148.72
September 1	$160.05	
September 10	162.05	
September 17	177.55	
September 24	218.40	
	$718.05	
Average Income per Bout		$179.51
October 1	221.05	
October 8	242.40	
October 15	132.40	
October 22	273.95	
October 29	262.80	
	$1,132.60	
Average Income per Bout		$226.52
November 5	$254.35	
November 12	293.85	
November 19	309.95	
November 26	276.80	
	$1,134.95	
Average Income per Bout		$283.74
December 3	343.30	
December 10	$369.50	
December 17	227.95	
December 22	309.85	
December 29	490.25	
	$1,740.85	
Average Income per Bout		$348.17
January 7	$333.05	
January 14	212.95	
January 19	855.60	
January 20	571.10	
January 21	1,362.50	
	$3,335.20	
Average Income per Bout		$667.04
Total Gross Income		$9,081.95

AMATEUR BASKET BALL

Month	Days of Games	No. of Games	Total Attendance	Games per Day	Attendance for Games	Attendance per Day
July	12	15	1,450	1.2	97.	120
August	9	9	775	1.	86.	86
September	9	9	650	1.	72.	72
October	14	14	975	1.	67.	144
November	20	29	2,175	1.4	75.	108
December	20	25	2,125	1.2	83.	106
January	7	12	614	1.7	51.	88
February	9	14	407	1.5	29.	45
March	6	16	524	2.6	33.	87
April	9	18	871	2.	48	97
May	7	17	659	2.4	37.	90
June	8	16	392	2.	25.	49
Total	130	194	11,617			
Total of participant players			3,812			

AMATEUR SOFT BALL

Month	Days of Games	No. of Games	Total Attendance	Games per Day	Attendance for Games	Attendance per Day
July	22	29	2,896	1.3	100.	132
August	25	39	4,437	0.5	139.	177
September	23	36	3,978	1.5	111.	173
October	20	38	4,137	1.9	109.	207
November	26	47	6,028	1.8	128.	232
December	21	41	5,109	1.9	125.	243
January	22	48	5,321	2.1	111.	242
February	24	42	4,264	1.7	102.	178
March	26	53	4,562	2.	86.	175
April	27	58	6,624	2.	114.	245
May	27	54	7,234	2.	134.	268
June	28	69	9,426	2.4	137.	337
Total	291	554	64,016			
Total of participant players			12,548			

AMATEUR VOLLEY BALL

Month	Days of Games	No. of Games	Total Attendance	Games per Day	Attendance for Games	Attendance per Day
July	10	12	525	1.20	44.	53
August	11	11	550	1.	50.	50
September	12	12	700	1.	58.	58
October	10	10	625	1.	63.	63
November	21	26	1,750	1.50	67.	83
December	19	20	1,475	1.1	74.	78
January	4	6	224	1.5	37.	56
February	7	7	446	1.	64.	64
March	10	12	612	1.	51.	51
April	1	1	34	1.	34.	34
May	0	0	0	0.	0.	0
June	0	0	0	0.	0.	0
Total	105	117	6,941			
Total of participant players			2,400			

SPORTS STATISTICS PROFESSIONAL BASE BALL

	October	November	December	January	February	March	Total
Number of days in which games were held	1	4	4	6	4	4	23
Number of games	2	8	8	11	8	8	45
Attendance	11, 476	41, 354	20, 507	26, 222	19, 696	12, 499	131, 754
Games per day	2	2	2	1.83	2	2	....
Average attendance per game	5, 738	5, 169	2, 563	2, 384	2, 462	1, 562	....
Average attendance per day	11, 476	10, 338	5, 127	4, 370	4, 924	3, 125	....

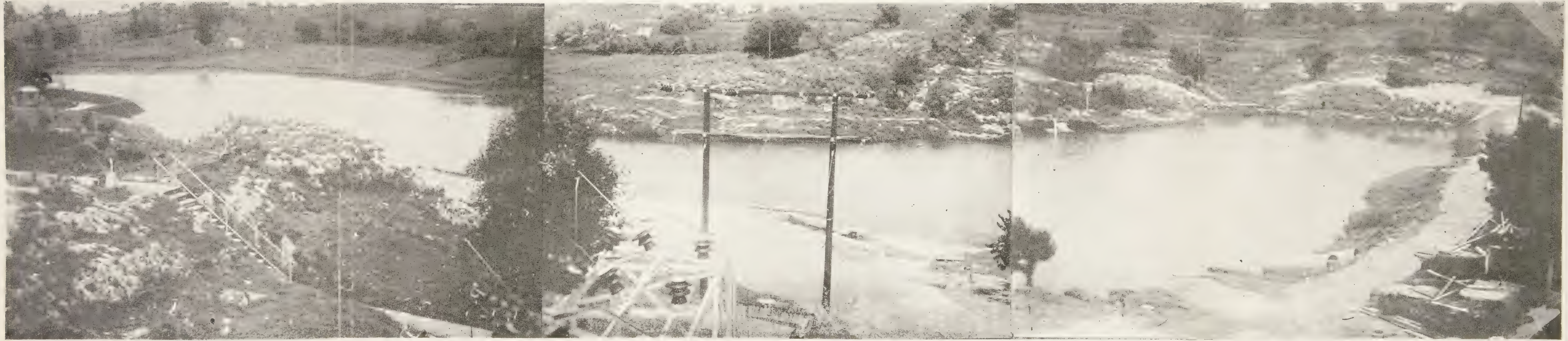
SPORTS STATISTICS PROFESSIONAL BOXING

	July	August	Total
Days of Fight	3	2	5
Attendance	1, 928	1, 093	3, 021
Average attendance	643	546	....

PERMITS FOR RECREATION AND OTHERS

	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	Totals
Parties	5	3	4	2	1	7	6	2	4	5	8	7	54
Kermesses	1	....	....	....	....	1	....	....	1	....	....	....	3
Athletics	20	29	26	38	53	30	47	40	50	52	48	28	461
Others	....	....	....	....	....	....	....	....	....	....	1	....	1

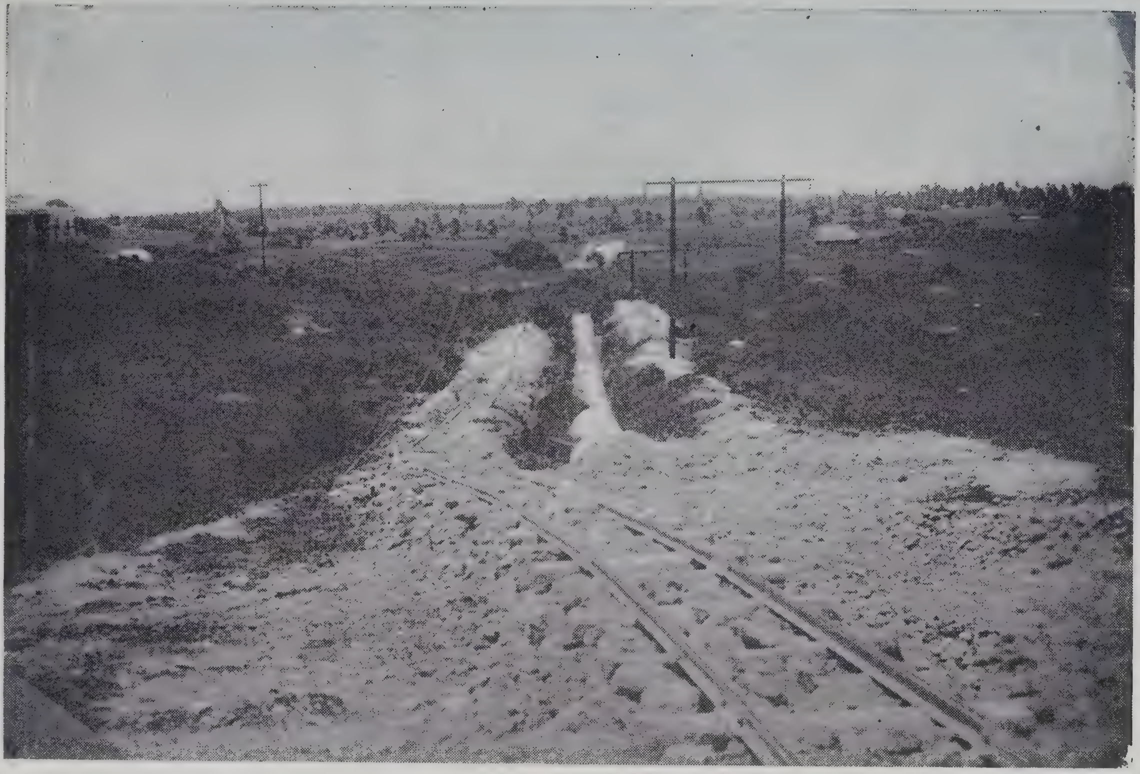
Total attendance to parties	1, 650
Total attendance to Kermesses	12, 300
Total attendance to Athletics	304, 654



REGULATING RESERVOIR, HYDROELECTRIC PLANT No. 3
Isabela Irrigation Service

Sergio Cuevas Bustamante
Commissioner

Administration Work
Insular Funds



REINFORCED CONCRETE PENSTOCK—HYDROELECTRIC PLANT No. 3
ISABELA IRRIGATION SERVICE

Sergio Cuevas Bustamante,
Commissioner.

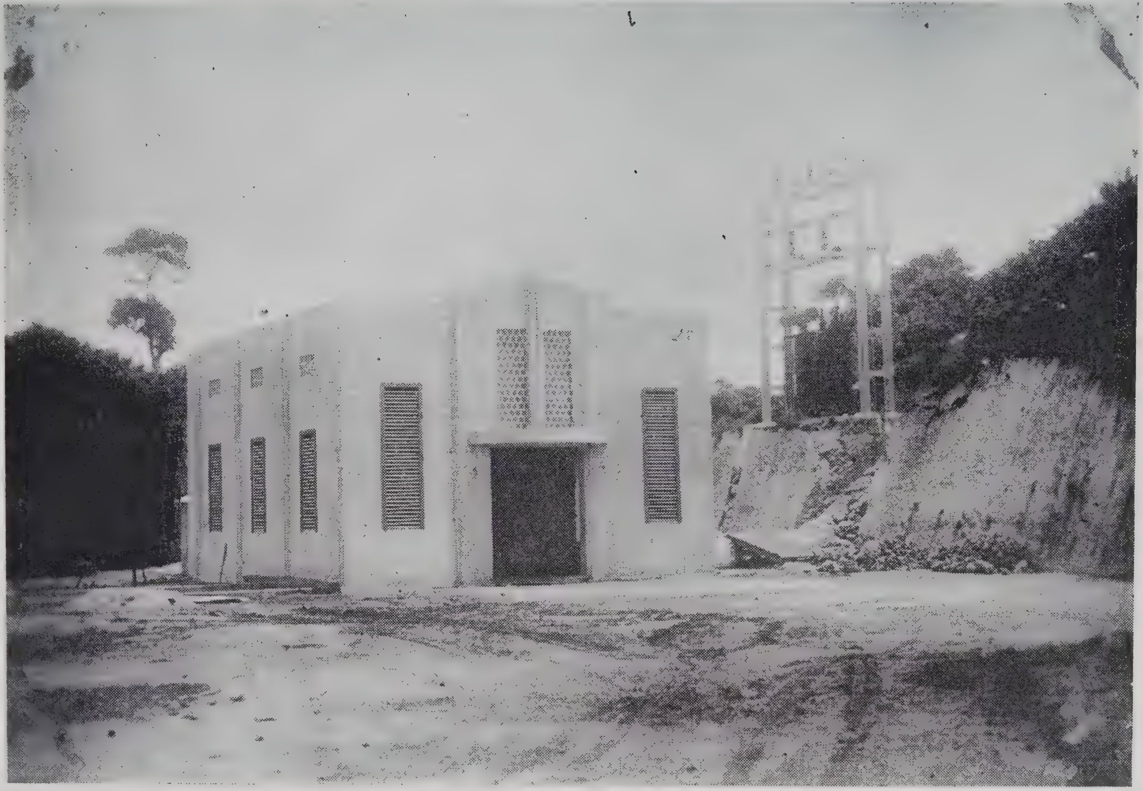
Administration Work—
Insular Funds.

MAIN CANAL—ISABELA IRRIGATION SERVICE

11,000 feet of this canal were lined with concrete during the year.

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Insular Funds.



REINFORCED CONCRETE BUILDING—HYDROELECTRIC PLANT No. 3
ISABELA IRRIGATION SERVICE

Sergio Cuevas Bustamante,
Commissioner.

Administration Work—
Insular Funds.

ISABELA IRRIGATION SERVICE

Quebradillas, P. R.

ANNUAL REPORT FOR FISCAL YEAR 1943–44

General Summary.—During the fiscal year 1943–44, this Service was affected by the worst conditions ever confronted due to the prevailing war situation aggravated by the most severe drought suffered in the Island during the past forty years, but notwithstanding said disadvantages the operating results of the year were satisfactory, which has confirmed, once more, the prediction made in the sense that the Organization will have sufficient income to meet its current expenses as well as other obligations within the next few years, as will be seen from data submitted in this report.

As stated in past year's report, an appropriation of $175,000 was made by the Legislature of Puerto Rico for the construction of Hydroelectric Plant No. 3; $75,000 of which were made available during the year 1942–43 and $100,000 during the year under report.

As the construction cost of said plant will amount to some $225,000, the Insular Legislature appropriated under Act No. 7, approved March 15, 1944, an additional amount of $50,000 to complete the plant.

Act No. 6, appropriating the sum of $30,000, was also approved on March 15, 1944, to add a generating unit to Hydroelectric Plant No. 2. Once the three plants be in full and normal operation, it will be possible to generate 16,000,000 KWH, which will produce an estimated income of $350,000.

The construction of Plant No. 3 was continued during this year, and by the end of the year it was 90 per cent completed. The War Production Board did not authorize the purchase of the hydroelectric unit for this plant and the spare unit from Plant No. 1 was transferred to the site of Plant No. 3. The unit at the new site was tested on June 30, 1944, with satisfactory operation.

In last year's report it was informed that Act No. 58 was approved on May 10, 1943, appropriating the sum of $20,000 from the funds of the Treasury of Puerto Rico to continue irrigation and hydroelectric investigations in the municipalities of Hatillo, Camuy, and

Quebradillas. The sum in this case was made available on October 20, 1943, and studies, surveys and soil investigations are being carried on since the month of January, 1944.

Production of energy in the district amounted to 5,794,013 KWH, showing a decrease of 3,898,690 KWH if compared with previous year's figure.

During the months of April and May Plants Nos. 1 and 2 operated during peak load hours only on account of low level in the Guajataca Reservoir caused by the long dry season.

Water service to the power plants was also interrupted in the year during certain hours and days for the concrete lining of the Main Canal. These two facts account for the drop in power production as compared with last fiscal year.

The total power generated and purchased amounted to 8,852,375 KWH. Energy delivered to consumers amounted to 7,311,538 KWH and energy sold at the interconnection was 1,195,880 KWH.

Total sale of electric energy amounted to $248,192.62 which is $388.68 less than previous year's figure. Although these results show a static condition in the development of business due, of course, to conditions already discussed, there was obtained a substantial increase in the sales to general consumers, as will be seen from the following data:

Net Annual Sale		Total Sale to P.R.W.R.A.	Total Sale to General Consumers
Year	Total		
1943–44	$248, 192. 62	$12, 396. 87	$235, 795. 75
1942–43	248, 581. 30	28, 659. 84	219, 921. 46
Differences	—$388. 68	—$16, 262. 97	$15, 874. 29

A total of 59,897 acre-feet of water were diverted from the Guajataca Reservoir in order to meet the requirements for the production of electric energy. The run-off into the reservoir was 57.157 acre-feet which was 1,740 acre-feet less than the draft, due to the extreme drought suffered during the year.

Out of the total volume of water drawn from the reservoir, only 3,900 acre-feet were delivered for irrigation purposes, under provisions of Law No. 178 of May 14, 1941, and 2,442 acre-feet were sold under direct orders. Water delivered for municipal waterworks and for domestic and industrial purposes amounted to 3,108 acre-feet.

The Irrigation Commission created by Act No. 251, approved May 11, 1942, held two meetings during the year, taking such decisions as were necessary for the proper development of the Permanent Irrigation District.

Project No. 32–35–1–260 of the War Emergency Program at the Spillway Channel of the Guajataca Reservoir was finished on November 18, at a total cost of $8,007.43.

Such work was under the supervision of this Organization, which contributed with $3,307.55 for equipment and material, and the War Emergency Program paid $4,699.88 for laborers.

Work under Project No. 32–78–1–259 for lining with concrete the Main Canal of the Irrigation System is in progress. At the end of the fiscal year 11,000 lineal feet were completed.

The year has been very successful as to financial results. The cash collections from all sources amounted to $689,060.94, of which $246,774.96 correspond to sale of electric energy, $42,655.82 to irrigation taxes and sale of irrigation water, and the balance covers contributions from electric consumers, land rentals and miscellaneous income.

The sum of $234,217.82 was disbursed to meet payment of current operation and maintenance expenses and of necessary improvements and extensions to irrigation and hydroelectric systems.

The sum of $447,312.59 was also disbursed during the year to cover payment of annual bonds due, interest accrued on outstanding bond indebtedness, and part payment of advances made in previous years from the Insular Treasury to the Isabela Irrigation Fund, which were paid out, in part, with the income obtained from the Special Tax of one tenth of one per cent authorized by Act No. 120, approved May 5, 1939, and the difference was covered with funds obtained from the general revenues of the Service, as follows:

Annual amortization of bonds	$300, 000. 00
Interest accrued	107, 312. 50
Part payment of Insular Treasury Advances	40, 000. 00
	$447, 312. 50
Income obtained from the Special Tax during year	323, 136. 00
Difference paid out from other Service's revenues	$124, 176. 50

This has been a year in which the amortization of bonds and payment of interest due were settled in full without resorting to loans or transfer from Insular Treasury as it happened during past years.

With the forthcoming increase in the sale of electric energy from the operation of the new Hydroelectric Plant No. 3, and considering that there will be a possible favorable change in the prevailing war conditions, very promising operating results for the ensuing fiscal year can be expected.

IRRIGATION SYSTEM

Direction and Supervision:

Mr. Domingo Panaini------------*Chief, Irrigation Division, and Assistant Chief Engineer.*
Mr. Saúl Rodríguez Estronza----*Assistant Engineer.*
Mr. Pedro García Badillo--------*Clerk. (Senior)*
Miss Paula López Núñez--------*Clerk.*

Operation:

Mr. Juan García Roca-----------*Overseer for the Operation and Construction of Irrigation System.*
Mr. Juan Adames---------------*Ditchrider.*
Mr. José C. Vera----------------*Ditchrider.*
Mr. Serafín Alfaro--------------*Ditchrider.*
Mr. Valentín Juarbe-------------*Ditchrider.*
Mr. José Díaz Muñiz------------*Ditchrider.*
Mr. Adrián Flores---------------*Gate Tender.*

General Maintenance and Construction Group:

Mr. Rafael Cantellops----------*Overseer for General Construction.*
Mr. Gregorio Riollano-----------*Mechanic-Blacksmith.*

IRRIGATION SYSTEM

Weather conditions, taken as a whole for the year, were unfavorable to the normal operation of the System. No atmospheric disturbances were observed and the rainfall on the watershed was 11.22″ less than the average for the period of observations.

Temperature.—The following tabulation shows the maximum and minimum temperatures observed during the year, with the dates when they occurred, at the weather stations of Lares, Quebradillas and Isabela Experiment Station, where temperature records for the District are kept. Tabulation gives also the average of the monthly maxima and minima and the mean recorded temperature for the year at each one of these stations.

	Guajataca Watershed		Irrigation District			
	Station at Lares		Station at Isabela Experiment Station		Station at I. I. S. Quebradillas	
	Temperature	Date of Observation	Temperature	Date of Observation	Temperature	Date of Observation
Maximum	93°F	Aug. 23, 1943	92°F	June 7, 1943	94°F	Oct. 27, 1943
Minimum	53°F	Mar. 19, 1944	60°F	Mar. 17, 1944	57°F	Jan. 8, 1944
Mean Maximum	87°F	....	89°F	....	88°F	....
Mean Minimum	63°F	....	69°F	....	61°F	....
Yearly Average	75°F	....	69°F	....	74°F	....

Rainfall.—The rainfall for the year amounted to: 83.71″ at Lares, 89.10″ at Soller and 67.49″ at Guajataca Dam. The average precipitation for the watershed was 80.10″ and this represents a decrease of 10.75″ under the normal. Rainfall observations at Lares have been recorded for the past thirty-nine years, at Soller for the past eight years and at Guajataca Dam for the last twenty-two years.

The rainfall on the watershed tributary to the Reservoir was under the normal for the period of observations, and that registered at the four stations located within the irrigable zone was also under the normal observed. At Hidroelectric Plant No. 1 it amounted to 54.46″; at Mora Camp, to 51.76″, at Isabela Experiment Station, to 64.44″; and at Calero Camp, to 53.98″. The averages recorded at these stations are as follows; at Plant No. 1, 64.08″ for a period of eight years; at Mora, 63.50″ for a period of fifteen years; at the Substation of Isabela, 69.77″ for a period of fifteen years; and at Calero Camp, 61.18″ for a period of sixteen years.

The records kept at the stations of Quebradillas and Coloso, located close to the limits of the Irrigation District, show a precipitation of 44.16″ at the first one of the two, with an average of 57.37″ for the past twenty years, and 78.12″ at the other station, with an average of 75.35″ for a period of fourteen years.

The maximum precipitation for a 24-hour period was registered at Lares, on October 14, 1943, and amounted to 3.75″.

Table No. I of those of the Irrigation System, shows the monthly precipitation, in inches, recorded at each one of the stations above mentioned, compared with the monthly average observed. In this table are given also the total rainfall for the year and the yearly average for the period recorded. The heavy line in the upper part of Diagram ''A'' presents the percentage that the rainfall to the end of each month of the year is of the yearly rainfall on the watershed of the Reservoir. This curve is compared with similar curves for previous years.

The run-off for the year amounted to 58,157 acre-feet, 26,838 acre-feet less than that of previous year. It became necessary to draw 1,740 acre-feet from the storage available at the begining of the year, to try to meet the demands of the Hydroelectric System. The lowest elevation observed during the fiscal year was 181.37 meters, with an available storage of 570 acre-feet, on April 25, 1944, and the maximum was 194.65 meters, with 25,550 acre-feet of storage, on October 25, 1943. This storage is 8,250 acre-feet below the total available storage corresponding to the new elevation of 197.40 meters to which the earth dike above the Spillway was raised.

Diagram ''A'', lower half, shows in heavy line, the percentage which the total run-off to the end of each month is of the normal run-off for the period observed. This curve is compared with similar ones for previous years.

Graph ''B'' presents the monthly run-off, in acre-feet, recorded from the year 1916–17 to date, and the mean monthly run-off for the period of observations. From August 1927 on, when impounding at the Guajataca Reservoir was commenced, observations are based on the operation of the Reservoir.

Operation of the Guajataca Reservoir.—The operation of the Guajataca Reservoir was initiated with an available storage of 13,340 acre-feet on July 1, 1943, and was completed with 11,600 acre-feet, on June 30, 1944. The run-off for the year, amounting to 58,157 acre-feet, which was not enough to meet the demands of the System. Due to the limited supply of water in the reservoir, it was necessary to stop the functioning of the power plants from March 24 to March 29. The water services for irrigation were reduced during previous months and it was necessary to suspend them totally from March 27, to May 8. The supply of water for the aqueducts was never interrupted; for this was indispensable the elimination of the weir of the Diversion Canal in order to permit the pass of the largest amount of water.

Table No. II of this report shows the yearly run-off into the Guajataca Reservoir, the draft from the Reservoir, the wastage to the sea and the storage available on June 30th of each year, beginning with the fiscal year 1927–28, when operation was initiated, up to and including year 1943–44.

The heavy line of Diagram "C" represents the storage available daily in the Reservoir, compared with similar graphs for previous years.

At Diagram "D", upper part, is shown the flow diverted daily from the Reservoir, to meet the demands of the System. The average daily draft for the year was 76.59 second-foot, compared with 113.9 of the previous year. The maximum flow diverted during the year was 123.75 second-feet, obtained on November 23, 1943.

The lower part of Diagram "D" gives the average of the daily losses for each month of the year and the average for the year of all the daily losses.

Diagram "I" presents the hydrology of Guajataca Reservoir for the fiscal year 1941–42, 1942–43, 1943–44 as compared with the mean of 28 years.

Operating expenses of the Dam and Reservoir amounted to $377.61 and $1,079.60 respectively.

Operation of the Water Distribution System.—Diagram "E" illustrates how the combined flow of waters drawn from the Reservoir and diverted from other sources is distributed. The total flow in the Diversion Canal during the year amounted to 61,350 acre-feet of which 10,014 were turned over to Moca Canal and the balance was passed thru Plant No. I to the Main Canal.

Diagram "F" shows the results obtained in the operation of the Water Distribution System. Out of the total volume of 61,350 acre-feet flowing in the System, only 6,342.78 acre-feet were used for irrigation purposes and 3,108.91 for waterworks, and domestic and Industrial purposes. Dotation water in the amount of 3,900.58 acre-feet was served during the year against a total allotment of 6,801.37 acre-feet.

Information is given, in detail, at tables III, IV and IV-A of this report, as to services made of sales and allotment waters, showing amounts sold or alloted monthly, deliveries made by gravity or pumps, orders issued during the year, amounts relinquished or not used, and balances carried forward.

Table V represents the operating characteristics of the South Valley Pumping Units, owned and operated by the Isabela Irrigation Service. Because of the low efficiency of these pumps it was necessary to use 38,570 KWHrs. to pump 345 acre-feet or an average of 112 KWHrs. per ecre-foot pumped

On May 6, 1943 the electric motor of the Guerrero Pump burned out. Due to war conditions it was impossible to put it in work again before January 10, 1944.

Cost of operation of the Diversion Canal and of the Distribution System were $782.75 and $12,322.68, respectively.

Water for Municipal, Domestic and Industrial Purposes.—Water for purposes indicated, in the amount of 3,108.91 acre-feet, were delivered during the year, under sixteen contracts. Previous years delivered for identical uses amounted to 3,179.85 acre-feet. The cash value of the water served under these contracts was $13,550.54 as compared with $13,875.36 for previous year.

The combined deliveries for purposes pointed above and for irrigation was 9,451.69 acre-feet or 15.4 per cent of the total flow in the Diversion Canal.

Maintenance.—To keep the Diversion Canal in conditions to carry at all times the high demands for water of the Hydroelectric System, it was necessary to give special attention to its maintenance.

The Distribution System received usual maintenance attention at a cost of $8,246.69 for the year or an average of $34.83 per kilometer of canal for year. Maintenance expenses of the Reservoir amounted to $472.48, and those of the Diversion Canal to $1,985.27.

PERMANENT IRRIGATION SERVICE

The following tabulation shows the size classification of farm units remaining in the Permanent Irrigation District at the end of fiscal year under review.

SIZE CLASSIFICATION OF FARM UNITS

Group	Number of Tracts	Area Acres
From 0.00 to 0.49	10	3.60
From 0.50 to 0.99	23	14.70
From 1.00 to 2.00	129	192.02
From 2.01 to 5.00	197	668.75
From 5.01 to 10.00	143	1,021.90
From 10.01 to 20.00	97	1,355.80
From 20.01 to 30.00	36	886.16
From 30.01 to 50.00	24	925.88
From 50.01 to 100.00	11	721.30
From 100.01 on	12	2,593.93
TOTAL	682	8,384.04

CROP CENSUS

During the month of December, 1928, a census of crops within limits of the Irrigation District was prepared by the personnel of this Service. Since then, similar work has been done yearly for statistical purposes. The following tabulation compares results of the past six years with those of the first census.

CROP CENSUS TABLE

Crops	On Dec. 31, 1928 Acres	Season Ending					
		June 30, 1939 Acres	June 30, 1940 Acres	June 30, 1941 Acres	June 30, 1942 Acres	June 30, 1943 Acres	June 30, 1944 Acres
Cane	2,295	5,569	6,092	5,642	5,879	5,084	4,649
Corn	389	423	373	119	125	339	65
Tobacco	452	108	116	124	46	46	148
Cotton	....	51	55	110	119	64	39
Plantains and Bananas	172	19	7	7	5	7	3
Beans	346	261	269	172	146	493	180
Ñames	72	62	33	33	25	25	3
Fríjoles	....	75	31	9	12	17	2
Grass	27	82	37	18	4	117	4
Cassava	37	25	18	14	1	5	1
Sweet Potatoes	112	87	44	20	16	118	6
Yautías	20	10	6	7	4	17	3
Gandules	6	45	12	....	1	17	5
Grape fruit and Lemons	....	36	36	41	37	12	9
Vegetables	....	96	198	62	120	20	6
Miscellaneous	20	14	27	4	7	5	22
Totals	3,948	6,963	7,354	6,382	6,547	6,386	5,145
Less: One half area planted in two crops	....	109	113	51	12	286	....
Gross Area Harvested	3,948	6,854	7,241	6,331	6,535	6,100	5,145
Net Area Planted on Date Indicated	3,948	6,750	6,758	6,298	5,701	6,006	4,831
Plowed Area	724	8	25	....	....	0	0
Total Net Cultivated on Date Indicated	4,672	6,758	6,783	6,298	5,701	6,006	4,831
Irrigated Area	1,095	5,396	3,275	2,843	4,286	3,932	1,908

The cane cultivated area had a drop occasioned by the lack of fertilizers and the severe drought. On the previous year 5,084 acres were planted and this year 4,649 could be planted. Only 1,745 acres of sugar cane were irrigated. There was also a marked decrease in the cultivation of corn, beans and other minor crops.

Results commented above are presented graphically in Diagram "G", and Diagram "H" shows those relative to sugar cane production.

READJUSTMENT OF FARM DEBTS

Efforts were continued during the year of collect debts accumulated on irrigable lands up to June 30, 1936 and readjusted by Act No. 146 of May 15, 1937. Results obtained up to date are shown in the tabulation that follows:

Certifications corresponding to	No. of Farms	Total Acres	Amount	
			Collected to June 30, 1944	Pending Collection
Farms excluded from the Irrigation District and exempted from payment of any amount whatsoever	190	489.48	....	....
Farms excluded from the Irrigation District, the owners of which had paid amounts equal to or greater than the resulting readjusted debt	24	53.87	....	....
Farms excluded from the Irrigation District, the owners of which have paid balances resulting from readjustment	17	120.75	$1,217.71	....
Farms excluded from the Irrigation District, the owners of which have accepted readjustment, but must as yet pay balances already determined by Insular Treasury	1	6.49	....	$53.22
Farms excluded from the Irrigation District, the owners of which have not as yet accepted readjustment	1	19.00	....	56.24
Farms the owners of which have previously paid amounts equal to or greater than the resulting readjusted debt	414	4,408.11	....	....
Farms the owners of which have paid balances resulting from readjustment	428	4,710.60	41,949.69	....
Farms the owners of which have accepted readjustment but have not as yet paid up balances already determined by Insular Treasury	65	433.16	....	4,950.25
Farms the owners of which have accepted readjustment, but balances to pay are as yet to be determined by Insular Treasury	....	....	....	....
Farms the owners of which have not as yet accepted readjustment	23	464.75	....	9,806.02
Totals	1,163	10,716.21	$43,167.40	$14,865.73

These amounts are estimated. In the case of farms included in these groups we have assumed that no water taxes have been paid since the inaguration of the service and therefore the amount to be paid in each case should be approximately equal to the total amount computed in the statement prepared by this Service.

Irrigation Commission

The Irrigation Commission created by Act No. 201 of May 11, 1942, decided in one of its meeting that any plot less than 3.00 acres of irrigable land should not be included in the Permanent Irrigation District, on the other hand, those having more than 3.00 acres should be included paying the organization $12.00 per acre and the owner the rest of the cost of the facilities to supply the water. Before any land is included, an engineer of the Service should decide by a survey the minimum amount of irrigable land of the plot.

Tax Levies

Act No. 63, of June 19, 1919, known as the "Isabela Public Irrigation Law", provided for the imposition of taxes on all lands included in the Permanent Irrigation District, to help meet operation and maintenance expenses and to cover amortization of bonds and interest on them. This Law has been modified from time to time, by the Legislature, to relieve critical situations faced by farmers, due to adverse conditions encountered. Table VI shows, in condensed form, all modification made to date.

Income From the Irrigation System

Up to July 1, 1936, the income derived from the Irrigation System consisted mainly of irrigation taxes imposed to all included lands under the original law and those amendments noted at Table VI. A large part of these taxes were not paid and had to be readjusted, as already stated, under terms of Act No. 146 of May 15, 1937. Then, in 1936, a new plan was initiated and maintained for five years. Under this plan, known as the "Optional Plan", all included lands were assesed $1.00 per acre per year and were given the privilege to purchase water for irrigation purposes whenever needed.

Revenues from this source were very limited and at the end of the Optional Plan a new Act, approved on May 14, 1941, was put in force. Report of the Insular Treasury sets at $21,541.68 the amount taxed under this Act for this year. Taxes levied for the fiscal year 1944–45 amounted to only $21,906.32.

Air Base No. I at Punta Borinquen

The claim presented by this Service for physical property losses and severance damages against Federal Authorities has not been settled as yet.

HATILLO–CAMUY–QUEBRADILLAS IRRIGATION DISTRICT

On May 10, 1943, was approved irrigation Act No. 58, appropriating the sum of $20,000 to continue irrigation and hydroelectric investigations in the lands bounded on the West by the Guajataca River and on the East by the municipal boundary line between Arecibo and Hatillo.

The preliminary investigations made under provisions of Act No. 52, of April 28, 1928, have been revised. Pluviometric Stations were established in the Barrios Zanjas of Camuy, in Pajuil of Hatillo and Lares, Lares. Also some gaging have been carried out in the Camuy River.

CONSTRUCTION ACTIVITIES

During the year the following works have been performed, under the direct supervision of this Division, with their costs:

Project No. 32–35–1–260 of the War Emergency Program at the Spillway channel of the Guajataca Reservoir was finished on November 18, at a total cost of $8,007.43: Such work was under the Supervision of this Organization, which contributed with $3,307.55 for equipment and material and the W.E.P. paid $4,699.88 for laborers.

Work under Project No. 32–78–1–259 for lining with concrete the Main Canal of the Irrigation System is in progress. At the end of the fiscal year 11,000 lineal feet were completed.

The construction of a reinforced concrete slab over Moca Canal in Otilio Medina's farm at a total cost of $29.24 was realized.

The relocation of a lateral, property of Carlos Manuel Cabrera for irrigation of Farm No. 10A ward Guerrero Isabela, where 1,000 lineal meters of canal were digged out and seven reinforced concrete flume sections were constructed at a total cost of $1,416.96.

Three 18″ pipe culverts were built, two in the farms of Simeon Angueira and Carmelo Pérez at a cost of $13.88 each and one on Pedro Sostache's farm on ward Jobos, Isabela, at a cost of $11.52.

On Lateral EO and in front of Mr. Francisco Nieves residence eighty (80) lineal feet were concrete lined at a cost of $125.96 and on Lateral EO on Mr. Rafael Chaves Roman's farm two hundred lineal feet were concrete lined at a cost of $205.93.

An 8″ outlet was constructed on farm No. 103, property of Fulgencio Calero ward Bejucos, Isabela at a cost of $46.07.

In order to irrigate several farms whose system was interrupted by the construction of the Borinquen Air Base, Lateral M18 was relocated from station 26 + 33.77 to 27 + 56.00 at a total cost of $333.76.

The weirs at the head gates of the Diversion, Moca and Main Canals were reformed in order to have a better idea of water served, seepage, and water wasted to sea during the year. This work was done at a cost of $1,108.82, $82.50 and $157.63 respectively.

The creeks that empty into the Guajataca River were diverted into the Diversion Canal, in order to save water in the Guajataca Reservoir, at a cost of $225.25.

The irrigation Commission had two meetings during the year. $69.12 were spent in salary and transportation of the members.

HYDROELECTRIC SYSTEM

Direction and Supervision:

Mr. Herminio Nigaglioni ----------*Chief, Hydroelectric Division.*
Mr. Ramón Schaening -------------*Electrical Engineer.*
Mr. Héctor Miranda---------------*Division Clerk.*

Operation:

(Distribution)

Mr. Ramón Arce -----------------*Assistant Electrical Engineer.*
Mrs. Miriam González Martínez----*Clerk.*
Mr. Juan R. Ibáñez----------------*Meter Tester.*
Mr. Carlos Nieves Santiago -------*Town Patrolman.*
Mr. Abdón Varela-----------------*Town Patrolman.*

Operation:

(Production)

Mr. Oscar Hau--------------------*Chief Plant Operator.*
Mr. Simón Oramas ----------------*Plant Operator.*
Mr. Eusebio Figueroa--------------*Plant Operator.*
Mr. Miguel Machado --------------*Plant Operator.*
Mr. Valentín Rivera --------------*Plant Operator.*
Mr. Félix Arce Arce---------------*Plant Operator (At large).*
Mr. Francisco Alfaro Calero------*Plant Operator (At large).*
Mr. Manuel Zamalot Grajales-----*Oiler.*
Mr. Eustaquio Rodríguez López----*Assistant Mechanic.*

General Maintenance and Construction Group:

Mr. Julio Delgado ----------------*Overseer, Operation and Construction Electric Lines.*
Mr. Angel Román -----------------*Assistant Line Foreman.*
Mr. Alberto García ---------------*Assistant Lineman.*

HYDROELECTRIC SYSTEM

Production.—Our production capacity was limited this year to about 60 per cent of that of previous fiscal year. Two outstanding facts contributed to this reduction, they were the concrete lining of Main Canal, for which was necessary to stop delivery of water during several periods to proceed with our program of lining 5,600 meters of canal to improve its capacity and to reduce seepage losses to a minimum and also the long and severe drought which prevailed during the last six months of the fiscal year. Thus, our production for this year amounted to 5,794,013, of which 3,744,930 were generated at Power Plant No. 1 and the balance, or 2,049,100 at Power Plant No. 2. We expect to double our production for next year with the addition of Power Plant No. 3 which was started and tested on June 30, 1944.

Diagram No. 1 shows power produced in the district, power imported at the interconnection, revenues obtained thru sale of that energy and the operating and maintenance expenses during each of the sixteen years the hydroelectric system has been under operation. Gross sales amounted to $263,421.96 which represents a gain of $5,097.40 over previous year.

Diagram No. 2 represents gross sales of energy during sixteen operating years. To the left of the graph are shown monthly sales during each year and to the right are shown amounts billed yearly.

On Diagram No. 3 are included power generated at the plants in the district, power imported at the interconnections, energy delivered to consumers in the district, energy delivered to the Authority of Water Resources and energy lost during each of the months of the year.

Diagram No. 5 shows typical load curves of Plants Nos. 1 and 2. At the top is the load curve during the day of maximum production, when the output was 27,840 kw. hrs. and the peak load was 1,200 KW. At the bottom is a typical daily load curve, showing an output of 25,560 kw. hrs.

Table No. 1 furnishes detailed information relative to power production in Power Plants Nos. 1 and 2, power purchased at the interconnection and power delivered to consumers.

Outstanding figures from this table are:

Power Produced	5,794,030
Power Purchased (P.R.W.R.A.)	2,614,495
Power Purchased (Coloso)	443,850
Power Sold to P.R.W.R.A.	1,195,880
Power Delivered to Consumers	5,992.308
Power Lost	1,515,401
Per Cent Lost	17.6

Distribution.—Diagram No. 4 shows distribution of electric power among different types of consumers. The outside annulus shows kilowatt-hours distributed to each group and the inside annulus shows income obtained from each type of consumer. Total electric energy distributed was 7,311,538 kw. hrs. as compared with 8,331,569 kw. hrs. distributed the previous year.

Demand among residential rate consumers was 2,732,345 kw. hrs. or 28,742 kw. hrs. over previous year demand. Commercial rate consumers demanded 1,477,878 kw. hrs. or 78,929 kw. hrs. over previous year. Industrial users demanded 1,089,554 kilowatt-hours or 259,458 kw. hrs. over previous year.

Tables Nos. 4 and 5 show energy delivered to each type of consumers and amounts billed to each type. The average price at which energy was served to consumers was $0.0359 per kw. hr. Gross income based on energy delivered to transmission lines was $0.0298 per kw. hr.

Tables Nos. 6 and 11 and Diagram No. 7 show statiscs relative to residential rate consumers. Average consumer demanded 30.13 kw. hrs. per month for an average price of $1.53.

Tables Nos. 7 and 12 and Diagram No. 8 contain information relative to the commercial rate consumer. This type of consumer used 96.11 kw. hrs. per month for a price of $3.62.

On Table No. 8 are shown statistics in connection with small and medium size power installations. This consumer demanded 88.94 kw. hrs. per month for an average bill of $2.60.

Table No. 9 contain information on power consumption by consumers served under exclusive transformer rate. Their monthly average consumption was 174.85 kw. hrs. for an average bill of $7.26.

Table No. 10 shows the distribution of electric energy among all types of consumers. Energy distributed per bill issued was 67.8 kw. hrs. and the average bill was $2.44.

Power Contracts.—Information relative to power contracts is analized by the Commercial Section of the Property and Accounting Division. This Division is in charge of this activity of the hydroelectrc service.

Interconnection.—During the year our system was permanently interconnected with the system of the Authority of the Water Resources. Energy purchased by this district was 2,614,495 kw. hrs. and energy sold to the Authority was 1,195,880.

During the period of drought it was necessary to purchase surplus energy from Central Coloso. To 443,850 kw. hrs. amounted the energy purchased at the interconnection with Central Coloso.

Meter and Transformer Section.—Total number of meters installed by the end of the fiscal year was 9,044 and there were 235 meters in stock. Total number of meters tested, repaired and recalibrated was 498, of which, 72 were at the request of consumers.

The following table shows classification of meters tested:

Month	Class of Test			Total
	Periodic	Complaint	Laboratory	
1943				
July	23	2	5	30
August	52	13	2	67
September	78	1		79
October	41	5	5	51
November	7	13	1	21
December	5	14	14	33
1944				
January	47	1	3	51
February	82	3	1	86
March	8	14	2	24
April	20	6		26
May	30			30
June				
TOTAL	393	72	33	498

Total KVA capacity of distribution transformers connected to the system was 4,920½ and distributed as follows:

Urban Zones in towns served	1,409½	KVA.
Branch Lines (4,000 V.)	314½	KVA.
Dependencies	170	KVA.
Main 4,000 V. line	1,629	KVA.
District Hospital (Aguadilla)	300	KVA.
Puerto Rico Housing Authority	97½	KVA.
Central Coloso	1,000	KVA.
	4,920½	KVA.

Improvements and Extensions.—Construction activities to reach new consumers were limited by regulations of the War Production Board. Only 28 new extensions were constructed. These constructions and other improvements amounted to $8,166.40.

During the year only 7 watthour meters were purchased and installed at a purchase price of $144.

Power Plant No. 3.—During the fiscal year the construction of Power Plant No. 3 was practically finished. Due to regulations of the War Production Board it was impossible to purchase the hydraulic and electrical equipment and it was necessary to transfer and install the spare unit at Power Plant No. 1 to the new site Power Plant No. 3, following instructions from that Federal Agency. On June 30, 1944 at 1:20 P. M. started operation of this unit.

PROPERTY AND ACCOUNTS

Direction and Supervision:

Mr. Basilio del Pilar---------------*Chief, Division of Property and Accounts.*
Mrs. Lydia González de Munera------*Clerk.*

Accounting:

Mr. Angel Mounier--------------------*Bookkeeper.*
Mr. Pedro A. del Pilar----------------*Clerk and Assistant Bookkeeper.*

Commercial:

Mr. Agustín Rivera-------------------*Acting Billing Clerk.*
Mr. Félix Chaves Badía---------------*Clerk.*
Mr. José de Jesús Suazo--------------*Clerk.*

Collection and Disbursements:

Mr. Enrique Redón--------------------*Receiving Officer.*
Mr. Herminio Detrés------------------*Special Disbursing Officer.*
Miss Virginia Martínez Martínez------*Clerk.*
Mrs. Miriam González Martínez--------*Clerk.*

Property and Purchases:

Mr. Luis V. Villalón-----------------*Property Clerk.*
Mr. Arturo Cañals de la Torre--------*Clerk.*

Transportation:

Mr. Rafael Miranda-------------------*Chauffeur-Mechanic.*
Mr. Francisco García Agueda----------*Chauffeur.*
Mr. Telésforo Prieto Hernández-------*Chauffeur.*
Mr. Faustino Hernández---------------*Chauffeur.*

File Room:

Mrs. Candita Muñoz de Vales----------*File Clerk.*

PROPERTY AND ACCOUNTS

Power Contracts.—As shown under Tables 2 and 3 of the Hydroelectric System, the following results were obtained in connection with contracts issued and cancelled during the year under report.

Contracts issued (All rates)	3, 216
Less: Contracts cancelled	2, 652
Increase for year	564
Plus: Active contracts at beginning of year	8, 657
Total active contracts at end of year	9, 221

The increase in contracts during the year, not considering Rate 3 (electric service without meter) which was discontinued for reasons given in previous year's report, was quite satisfactory, although it does not compare with past year's results due, of course, to prevailing war conditions.

Billing.—During the year there were issued 108,418 bills of all kinds for a total amount of $410,394.06. Comparing these figures with corresponding ones for last year, it is obtained an increase of 5,553 in the number of bills and $111,715.84 in the amount billed. A classification of the bills issued, by months, is shown under Table "A".

Collection.—The collections made during the year are shown under Table "D" of this Division, and were as follows:

Receiving Officer:		
Power and water bills, etc.		$319, 981. 89
Treasurer of Puerto Rico:		
Water taxes and surcharges	$24, 877. 16	
1/10 per cent Special Tax (Act 120 of 1939)	323, 136. 00	
Reimbursements, etc.	23, 907. 91	
Repayment by Special Disbursing Officer	8, 995. 25	
		380, 916. 32
Total Collected		$700, 898. 21

During the year 108,017 bills were issued covering sale of electric energy for a net amount of $248,192.62; and the results obtained in the collection of these accounts were as follows:

Gross amount billed	$263, 421. 96
Less: Compensation to municipalities	15, 229. 34
Net billed for collection, including miscellaneous revenues and adjustments corresponding to previous year	248, 192. 62
Less: Total collected up to June 30, 1944	220, 041. 43
Balance pending collection	28, 151. 19
Less: Amount collected in July, 1944 during which June bills are collected	19, 608. 21
Actual outstanding balance pending collection for year	$8, 542. 98

The last figure, as compared with the one for previous year of $10,121.42, shows that during the year under report the actual oustanding balance of current year's bills is lower.

As will be seen from the following tabulation less than one per cent (1%) remains uncollected from nonpayment of power bills by minor consumers ever since the operation of our Hydroelectric System was started some sixteen years ago.

Fiscal Year	Net amount billed for Collection	Outstanding Balances Pending Collection	
		Amount	%
1927–28	3, 884.61		
1928–29	33, 300.21	.30	
1929–30	41, 395.17	199.98	.48
1930–31	45, 237.16	172.88	1.38
1931–(July–September)	11, 892.04	160.84	1.35
1931–(October) to 1934 (December) (1)	179, 990.31	834.98	.46
1935–(January–June)	31, 672.86	415.54	1.31
1935–36	75, 984.15	427.17	.56
1936–37	96, 660.18	1, 396.36	1.44
1937–38	106, 844.21	1, 068.55	1.00
1938–39	121, 974.87	729.01	.60
1939–40	141, 250.81	990.12	.70
1940–41	192, 467.21	1, 427.82	.74
1941–42	255, 068.20	3, 517.21	1.38
1942–43	248, 250.01	3, 042.72	1.23
1943–44	248, 192.62	28, 151.19	(23
Average to 1942–43			.91%

NOTES —

(1) The total for the period from October, 1931, to December, 1934, is shown in a lump sum because during the time our Hydroelectric System was operated by Utilization of the Water Resources and the billing and collection were carried on by that Organization.

(2) The percentage in this case is not given because the outstanding balance covers bills issued during the last month of the year and bills owed by municipalities, governmental agencies, commercial firms, etc. accrued during the last months of the year which are not paid within the fiscal year, all of which will be collected during the coming year. Hence the percentage would not be representative.

Disbursements.—Table "B" shows that 437 disbursement vouchers were issued during the year, covering the following main items.

Current operating, maintenance and construction expenditures		$234,217.82
Accrued accounts payable corresponding to previous years		7,026.51
Obligations:		
Payment of principal	$300,000.00	
Interest	107,312.50	
Part payment on debt with Treasury Department	40,000.00	
		447,312.50
Reimbursement of Customers' Cash Bond Deposits		1,243.61
Total vouchers issued during the year		$689,800.44
Plus: Vouchers in transit at beginning of year		6,880.20
Total Disbursements		$696,680.64

The Special Dirbursing Officer made cash payments out of special funds in his possession, as follows:

General Special Fund of $20,000:	
Biweekly laborers' payrolls	$100,072.90
Deferred wages	523.31
Subvouchers for purchases not exceeding $100 and minor expenses not exceeding $10	6,092.09
Traveling expense accounts of personnel	4,175.17
Total	$110,863.47

Special Fund of $1,000:

This special fund is used in repaying customers' cash bonds deposits only, against which a total of $1,243.61 was reimbursed during the year.

Purchases.—This Service issued during the year the following requisitions and direct or service orders:

Requisitions to the Insular Procurement Office	368
Direct or Service Orders	155

Unexpendable Property.—The following equipment was purchased during the year and classified as unexpendable property by the Office of the Honorable Auditor of Puerto Rico:

Hydroelectric System:			
2	Transformers, 150 amps., Ratio 30 to 1, 5,000 v.	$50.01	
2	Transformers, 150 amps., Ratio 40 to 1, 4,500 v.	51.35	
2	Transformers, 300 amps., Ratio 60 to 1, 4,500 v.	55.37	
1	Watthour meter, W.H., 15 amps., used	3.00	
6	Watthour meters, G.E., 15 amps., 240 v.	145.23	
4	Transformers, G.E., Ratio 20 to 1, 2,400/120 v.	113.30	
12	Transformers, Standard, 3 KVA, 4,000/115/230 v.	2,870.61	
12	Transformers, Standard, 5 KVA, 4,000/115/230 v.		
6	Transformers, Standard, 25 KVA, 4,000/115/230 v.		
4	Transformers, G.E., Ratio 20 to 1, 2,300 v.	136.85	
2	Transformers, G.E., Ratio 60 to 1, 5,000 v.	30.00	
1	10" cutting plier	1.50	
17	Wrenches, different types	10.75	
1	Ratchet for pliers	1.50	
1	Steel carpenter square	2.00	
1	Stillson wrench No. 14	1.50	
1	Stillson wrench No. 18	2.00	
1	Mechanic steel hammer	.90	
11	Wrenches, different types	35.47	
4	Pairs Wilson Goggles, type RW–30	10.00	
1	1" steel wrench	3.00	
9	Each contact studs, and springs, with silvertip, for use with type TA–125, Form K3 generator voltage regulator	25.59	
46	Steel shovels	58.50	
24	Pick mattocks	24.00	
			$3,632.43
Furniture, Fixture and Equipment:			
1	Volume "Laws of Puerto Rico, Ordinary Session of 1942"	8.76	
1	Volume "Laws of Puerto Rico, Extraordinary Session of 1942"	1.80	
1	Copy Practical Arc Welding No. E.W. 80	2.30	
7	New No. 4632–12 Style a, b, g, h, j, l, m drawing scales	20.16	
2	Rain gauges	19.00	
6	Tires 32 × 6	285.00	
5	Four-ply tires 6.50 × 16	103.80	
1	Six-ply tire 7.00 × 16	29.00	
2	Six-ply tires 6.50 × 16	48.40	
2	Six-ply tires 6.00 × 16	44.89	
			563.11
	Total		$4,195.54

Transportation.—This Service operated during the year a fleet of ten vehicles, as follows:

One Buick Sedan, 5 passengers, 1935 Model,
One Dodge Sedan, 7 passengers, 1940 Model,
Two Ford Coupés, 1937 Model,
One Nash Coupé, 1942 Model,
Two Ford Pickups, 1937 Model,
One Ford Pickup, 1940 Model,
One Dodge Truck, 1936 Model,
One Ford Truck, 1940 Model.

These vehicles are used by the employees for inspection of regular operation and maintenance, and for inspection of field work.

Trips are effected by means of travel orders requested in advance. During the year 2,452 orders were issued.

The following table shows the unit cost and distance run per vehicle, for the last two years:

Auto	Mileage		Unit	Cost
	1942–43	1943–44	1942–43	1943–44
Buick IG– 12	6,230 M.	10,202 M.	.0782	.0674
Ford IG– 48	11,837 Km.	14,842 Km.	.0495	.0592
Dodge IG– 49	4,042 M.	15,464 M.	.1466	.102
Ford IG– 55	11,512 Km.	13,561 Km.	.05	.0554
Ford IG– 60	19,125 Km.	20,784 Km.	.033	.0425
Ford IG– 61	19,173 Km.	17,699 Km.	.0447	.0534
Ford IG–258	19,394 Km.	25,019 Km.	.0769	.0721
Dodge IG–268	8,184 M.	13,799 M.	.0882	.0737
Dodge IG–269	10,162 M.	17,894 M.	.0882	.0838
Nash IG–412	10,139 M.	19,582 M.	.0476	.0815
TOTAL FOR YEAR	143,413 Kms.	21,814 Kms.	.0509	.0542

Total Operating and Maintenance costs for this year amounted to $11,637.94, or an increase of $4,332.81 over last year's figure of $7,305.13. This was due to the great increase in transportation on account of the construction of Power Plant No. 3 and concrete lining of canals. These costs are distributed monthly among construction, operation, maintenance and sundry accounts, in accordance with the distance run and object of each trip.

Budget.—The annual budget for this Service, approved by the Bureau of the Budget and the Governor of Puerto Rico, amounted to $655,102.22, and the total expenditures amounted to $648,646.14, thus giving an available balance of $6,456.08. If we consider the value of electric energy imported from interconnected system due to the intensive drought during the year, amounting to $25,288.91, to cover which there was no credit authorized in budget, then the unexpended balance would have amounted to $31,744.99.

Table ‘‘C’’ shows a classified comparison of actual expenditures with authorized allotments.

Bond Indebtedness.—As detailed under this heading in our Balance Sheet, the bond indebtedness of the Service at the end of the fiscal year amounted to $2,975,000, or $300,000 less than previous year's figure, decomposed as follows:

Operation Bonds:			
Series ‘‘A’’ to ‘‘T’’, 1952–71, at 4½%		$900,000.00	
Series ‘‘T’’ to ‘‘V’’, 1971–73, at 5%		350,000.00	
			$1,250,000.00
Refunding Bonds:			
Series ‘‘A’’, 1935–1945–1974, at 4¼%		$75,000.00	
Series ‘‘B’’, 1936–1946–1975, at 3%		75,000.00	
Series ‘‘C’’, 1937–1976, at 3½%		75,000.00	
			225,000.00
Consolidation Bonds:			
P. R. 2½% Isabela Irrigation Consolidation Bonds, 1940–49		$2,625,000.00	
Less: Amortizations:			
January 1, 1940	$25,000.00		
January 1, 1941	200,000.00		
January 1, 1942	300,000.00		
January 1, 1943	300,000.00		
January 1, 1944	300,000.00		
		1,125,000.00	
			1,500,000.00
Total Bond Indebtedness			$2,975,000.00

The actual disbursements during the year in connection with the amortization of bonds, interest on bonded debt, and part payment on debt with the Insular Treasury, were as follows:

Fifth amortization of 2½% Consolidation Bonds	$300,000.00
Interest on bonded debt	107,312.50
Part payment on debt with Insular Treasury	40,000.00
	$447,312.50
Less: Amount covered with proceeds from Special Tax of one-tenth of one per cent, as per Act No. 120, approved May 5, 1939	323,136.00
Difference defrayed out of Service's funds	$124,176.50

As seen from the foregoing data, this has been a year during which it was not necessary for the Insular Treasury to advance funds to cover payments of principal and interest charges.

Accounting.—During the year the following documents were issued, audited and registered in the general books of accounts;

437 disbursement vouchers,
108, 418 credit vouchers (power, water and general bills), and
174 journal vouchers covering cash and general transactions.

The accounting exhibits appearing in this report, which are described below, show the financial condition of the Organization and the business results of the year under report.

Exhibit ''A''.—This statement shows the cash receipts and disbursements during the year pertaining to ''General Fund''. Cash receipts from all sources, including $223,411.75 at the beginning of the year, amounted to $933,760.71. The net cash disbursements amounted to $716,014.45, thus leaving a cash balance with the Treasurer of Puerto Rico at the end of the year of $217,746.26, of which the sum of $6,362.58 covering vouchers payable in the transit should be deducted, leaving a balance of net cash available of $211,383.68.

Exhibit ''B''.—This statement shows the conditions of the Organization at the end of the fiscal year.

''Fixed Assets'' remained practically the same. Total ''Current Assets'', as compared with previous year's figure, show an increase of some $40,000 due principally to an increase in receivables from billing covering reimbursements of expenditures incurred in the construction of Power Plant No. 3.

Available current assets amply cover the current liabilities, leaving an available margin of over $370,000.

The ''Liability'' side shows, in the first case, a detail of the bond indebtedness and also other fixed obligations of the Service. The bond indebtedness was reduced in the amount of $300,000, which represents the fifth amortization of the 2½ Consolidation Bonds.

The Insular Treasury Temporary Loans account shows a reduction of $40,000 as compared with last year's figure.

Current Liabilities show an increase of over $22,000 due to unpaid accounts accrued on June 30, 1944.

Total Liabilities show a decrease of over $319,000 as compared last year's figure.

Exhibit ''C'' shows all revenues and expenses, as well as the result of operation for the year.

The gross sale of electric energy during the year amounted to $262,960.13, which compared with last year's figure of $259,324.56, shows an increase of $3,635.57.

The gross income of this Organization, exclusive of interest expense, amounted to $432,381.42, and after deducting interest charges totalling $117,682.93 leaves a net surplus for the year of $314,698.49 against $405,942.40 and $326,667.69 for previous two years. This decreased volume of business was due primarily to the decrease of $78,864 in the proceeds of the Special Tax of one-tenth of one percent imposed upon all taxable property in the island, as per Act No. 120 of May 5, 1939 and the purchase of electric energy from interconnected systems amounting to $27,143.86 in order to take up the power demand from our consumers during water service interruptions to our plants due to extraordinary drought and the concrete lining of Main Canal.

Exhibit ''D'' shows the operation and maintenance expenses, including the depreciation charges of the different features of the Organization, and it supports the expense figures of the Income Statement, Exhibit ''C''.

The following statement shows a detailed distribution of the amounts appearing in said Exhibit ''D'', segregating depreciation charges during the year.

Account	Total	Less Depreciation	Direct Expense
IRRIGATION SYSTEM:			
OPERATING EXPENSES:			
Guajataca Reservoir	$1,457.21	$613.98	$843.23
Diversion Canal	782.75	36.61	746.14
Distribution System	12,322.68	1,065.54	11,257.14
	14,562.64	1,716.13	12,846.51
MAINTENANCE EXPENSES:			
Guajataca Reservoir	472.48	...	472.48
Diversion Canal	1,895.27	...	1,895.27
Distribution System	8,246.69	...	8,246.69
	10,614.44	...	10,614.44
TOTAL, OPERATION AND MAINTENANCE	25,177.08	1,716.13	23,460.95
HIDROELECTRIC SYSTEM:			
OPERATING EXPENSES:			
Power Plant No. 1	12,426.81	4,753.26	7,673.55
Power Plant No. 2	10,731.49	4,890.42	5,841.07
Substations	1,501.43	1,223.15	278.28
Transmission Lines	8,034.33	6,202.26	1,832.07
Distribution System:			
Distribution Lines:			
Primary Distribution Lines	3,576.98	914.58	2,662.40
Secondary Distribution Lines	34,427.04	15,463.12	18,963.92
Meter and Transformer Operation	2,888.88	56.69	2,832.19
Lease of Municipal Distribution Systems	3,500.00	...	3,500.00
Compensation to Municipalities	15,229.34	...	15,229.34
Interconnections	435.88	...	435.88
Purchase of Electric Energy	27,143.86	...	27,143.86
	119,896.04	33,503.48	86,392.56
MAINTENANCE EXPENSES:			
Power Plant No. 1	123.99	...	123.99
Power Plant No. 2	320.46	...	320.46
Substations	190.68	...	190.68
Transmission Lines	198.62	...	198.62
Distribution Lines			
Primary Distribution Lines	1,879.95	...	1,879.95
Secondary Distribution Lines	1,033.89	...	1,033.89
	3,747.59	...	3,747.59
TOTAL, OPERATION AND MAINTENANCE	123,643.63	$33,503.48	$90,140 15
GENERAL ADMINISTRATION:			
OPERATING EXPENSES:			
Main Headquarters	2,388.44	2,206.74	181.70
Telephone Lines	755.62	362.20	393.42
Garage	1,159.46	58.43	1,101.03
General Warehouse	3,169.18	...	3,169.18
Executive Division	9,029.30	...	9,029.30
Accounting Division	23,591.14	...	23,591.14
General Expenses	6,572.01	838.75	5,733.26
	$46,665.15	$3,466.12	$43,199.03
MAINTENANCE EXPENSES:			
Main Headquarters	$545.46	...	$545.46
Telephone Lines	490.57	...	490.57
Garage	...	...	...
	$1,036.03	...	$1,036.03
TOTAL, OPERATION AND MAINTENANCE	$47,701.18	$3,466.12	$44,235.06
GRAND TOTAL	$196,521.89	$38,685.73	$157,836.16

Exhibit "E" shows a detailed distribution of the cost of the different construction works, including improvements and extensions carried out during the year.

ORGANIZATION AND PERSONNEL

The organization of the service at the end of the fiscal year 1943–44, with divisions and positions, is given below:

Positions	Executive Division	Property and Accounts Division	Irrigation Division	Hydro-electric Division	Consrtuction Division	Totals
Chief Engeener	1					1
Chief of Division		1	1	1		3
Assistant Administrative Officers		6	1	1		8
Engineers (Civil & Elect.)			1	3	1	5
Clerical Positions	3	11	2	3		19
Chief Plant Operators				1		1
Plant Operators				6		6
Plant Operators (At large)				2		2
Plant Oilers				6		6
Line Foremen				1		1
Linemen				5		5
Assistant Linemen				1		1
Town Patrolmen and Collectors				10		10
Meter Testers				1		1
Overseers, Operation and Construction			2	1		3
Ditchriders and Gate Tenders			10			10
Chauffeurs, Mechanics and Blacksmiths		5	1	1		7
Messengers, Watchmen and Camp Attendants		4		2		6
Laborers (Daily Basis)		4	30	12		46
TOTALS	4	31	48	57	1	141

CLASSIFICATION

Permanent appointments	50
Temporary appointments (Monthly Basis)	2
Temporary appointments (Daily Basis)	31
Vacant positions	12
Laborers (Daily Basis)	46
TOTAL	141

CLASSIFICATION OF POSITIONS

	Annual Salaries		
Chief Engineer			$5,000
Chief of Divisions	$3,300	to	3,600
Assistant Administrative Officers	900	to	2,000
Engineers (Civil-Electrical)	1,800	to	2,700
Clerical Positions	600	to	900
Chief Plant Operator			2,200
Plant Operators	840	to	1,050
Plant Oilers			720
Line Foremen			1,000
Linemen	600	to	900
Town Patrolmen and Collectors			840
Meter Tester			900
Overseers, Operation and Construction	1,380	to	1,600
Ditchriders and Gate Tender	600	to	720
Chauffeurs, Mechanics and Blacksmiths	720	to	1,080
Messengers, Watchmen, and Camp Attendants	450	to	480
Laborers (Daily Basis)	18 cents to 20 cents per hour.		

CIVIL SERVICE

During the year there were made four appointments. Nine employees resigned their positions, eight of them had permanent appointments and one was a temporary employee. Two of the eight permanent appointments ceased because they were inducted to military service. Four employees were promoted and their salaries increased.

The fifty permanent employees of the Service are classified as follows considering their status as members of the Savings and Loan Fund Association of the Employees of the Insular Government of Puerto Rico:

Full members of the first category	11
Full members of the second category	16
Members accepted for savings only on account of being over 50 years old	6
Members accepted for savings only, due to other causes	2
Members enjoying benefits of savings only	15
Total	50

During the year there were granted 318 leaves of absence, classified as follows:

315	Vacation leaves covering	1,347½ days
3	Sick leaves covering	38½ days
		1,386 days

GENERAL FILES

The employees in charge of the file section attend to the incoming and outgoing mail of the Organization. All mail pieces received are time stamped, recorded, referred to proper officials for attention, and finally filed.

During the year there were received 5,838 pieces of assorted mail and 1,925 letters were mailed, as follows: 1,169 originated by the Service and 756 written in reply to communications received.

All valuables, including checks, money orders, cash, etc., are also received by said employees, who issue daily reports to cover same. These reports, together with the corresponding valuables, are delivered to the Receiving Officer in the case of collections, and to the Special Disbursing Officer when checks are received from the Treasury Department in payment of disbursement vouchers issued by the Service.

There were issued 726 of said reports during the year: 583 covering collections and 143 covering checks to be delivered to creditors of the Service.

The file room issued also weekly bulletins covering letters, documents, etc., not returned to files on due time by the corresponding officials.

LEGISLATION

The 15th Legislature of Puerto Rico, in its regular session of the year 1944, passed two bills which were approved by The Honorable, The Governor of Puerto Rico on March 15, 1944, and converted into the following acts:

Act No. 6.—To appropriate, from any available funds in the Insular Treasury not otherwise appropriated, the sum of thirty thousand (30,000) dollars for the installation of an additional unit in Hydroelectric Plant No. 2 of the Hydroelectric System of the Isabela Irrigation Service, and for other purposes.

Act No. 7.—To appropriate, from any available funds in the Insular Treasury not otherwise appropriated the sum of fifty thousand (50,000) dollars, for the termination of Hydroelectric Plant No. 3 of the Hydroelectric System of the Isabela Irrigation Service, and for other purposes.

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TABLAS Y DIAGRAMAS
DEL
SISTEMA DEL RIEGO

TABLES AND DIAGRAMS
OF THE
IRRIGATION SYSTEM

IRRIGATION SYSTEM

TABLE NO. I

MONTHLY RAINFALL IN INCHES AT THE ISABELA IRRIGATION DISTRICT AND NEIGHBORING STATIONS

SISTEMA DE RIEGO

TABLA NO. I

LLUVIA MENSUAL EN PULGADAS EN LA ZONA DEL RIEGO DE ISABELA Y ZONAS CONTIGUAS

Month	Drainage Area Guajataca Reservoir						Irrigation District								Neighboring stations			
	Lares		Central Soller		Dam		Mora Camp Isabela		Calero Camp Aguadilla		Experimental Substation		Plant No. 1		Quebradillas		Coloso	
	Month	Mean (1)	Month	Mean (2)	Month	Mean (3)	Month	Mean (4)	Month	Mean (5)	Month	Mean (6)	Month	Mean (7)	Month	Mean (8)	Month	Mean (9)
Mes	Cuenca del Pantano Guajataca						Disrtito de Regadío								Zonas Contiguas			
	Lares		Central Soller		Presa		Camp. Mora Isabela		Camp. Calero Aguadilla		Granja Insular Isabela		Central No. 1		Quebradillas		Coloso	
	Mes	Prom. (1)	Mes	Prom. (2)	Mes	Prom. (3)	Mes	Prom. (4)	Mes	Prom. (5)	Mes	Prom. (6)	Mes	Prom. (7)	Mes	Prom. (8)	Mes	Prom. (9)
1943																		
July	6.02	8.00	7.35	8.49	5.24	5.87	3.91	4.78	6.38	4.94	5.50	5.47	3.84	4.49	3.63	4.73	8.95	9.91
August	13.36	10.41	11.90	11.07	8.30	8.22	7.97	6.17	6.06	6.98	7.51	7.01	9.07	6.30	6.38	5.06	12.42	11.63
September	13.73	12.01	12.40	10.48	10.43	9.58	5.44	7.26	2.99	6.37	6.39	7.07	6.78	5.82	6.45	5.67	9.65	9.80
October	11.68	12.20	9.60	11.59	6.35	8.49	4.98	6.30	7.68	6.66	8.45	7.51	5.84	8.93	4.70	5.29	8.93	8.13
November	4.38	8.26	2.20	8.75	2.55	6.77	1.51	6.71	1.18	5.07	2.33	6.34	1.57	6.61	0.72	6.58	5.86	5.35
December	7.99	4.51	5.00	2.79	2.20	4.40	2.58	3.87	2.07	3.20	2.63	4.03	2.50	3.07	3.07	4.57	1.20	2.34
1944																		
January	1.37	2.85	3.25	3.59	2.42	3.16	3.36	3.26	3.48	2.79	4.65	3.67	2.89	3.55	1.71	3.42	1.27	2.28
February	1.15	3.28	2.50	4.06	1.83	3.40	1.16	3.05	0.73	2.59	1.08	2.96	1.11	3.08	1.93	2.90	0.68	2.39
March	1.90	4.42	1.55	3.63	1.41	3.95	3.31	3.38	4.63	3.66	5.68	3.85	1.42	3.31	2.36	2.88	1.55	3.89
April	3.33	8.47	8.35	7.22	7.71	5.88	6.12	4.15	3.94	3.49	6.40	4.42	6.49	5.08	3.53	3.71	6.98	5.24
May	9.21	14.07	10.65	12.70	5.55	10.40	4.28	8.36	4.94	8.49	5.52	9.58	4.19	7.70	3.89	8.01	6.00	2.57
June	9.29	9.39	14.35	9.61	13.50	8.70	7.14	6.75	9.90	6.94	8.30	7.86	8.76	6.14	5.79	4.55	14.63	11.82
Total	83.71	97.87	89.10	93.98	67.49	78.82	51.76	63.50	53.98	61.10	64.44	69.77	54.46	64.08	44.16	57.37	78.12	75.35

(1) Mean of 39 years
(2) Mean of 8 years
(3) Mean of 22 years
(4) Mean of 15 years
(5) Mean of 16 years
(6) Mean of 15 years
(7) Mean of 8 years
(8) Mean of 20 years
(9) Mean of 14 years

(1) Promedio de 39 años
(2) Promedio de 8 años
(3) Promedio de 22 años
(4) Promedio de 15 años
(5) Promedio de 16 años
(6) Promedio de 15 años
(7) Promedio de 8 años
(8) Promedio de 20 años
(9) Promedio de 14 años

IRRIGATION SYSTEM

TABLE No. II

GUAJATACA RESERVOIR WATER STORED, DIVERTED AND WASTED TO SEA

SISTEMA DE RIEGO

TABLA No. II

EMBALSE GUAJATACA AGUAS ALMACENADAS, TRANSVASADAS Y DERRAMADAS AL MAR

FISCAL YEAR	ACRE - FEET			
	Run-off	Diverted	Wasted to sea	Available on June 30
AÑO FISCAL	ACRE - PIES			
	Aportados	Derivados	Derramados al mar	Disponibles en Junio 30
1927-28	...	...	...	11, 980
1928-29	98, 467	57, 215	49, 332	3, 900
1929-30	61, 074	62, 074	0	2, 900
1930-31	69, 339	47, 739	0	24, 500
1931-32	55, 759	61, 439	380	18, 440
1932-33	101, 784	64, 476	33, 768	21, 980
1933-34	62, 794	68, 034	0	16, 740
1934-35	80, 022	59, 712	6, 075	30, 975
1935-36	97, 859	69, 354	28, 380	31, 100
1936-37	53, 148	68, 992	1, 506	13, 750
1937-38	72, 929	65, 619	...	21, 060
1938-39	72, 053	69, 881	2, 842	20, 390
1939-40	75, 178	76, 148	0	19, 420
1940-41	74, 718	77, 718	0	16, 420
1941-42	85, 002	82, 886	36	18, 500
1942-43	84, 995	83, 151	7, 004	13, 340
1913-44	58, 157	59, 897	0	11, 600

IRRIGATION SYSTEM

TABLE No. III

WATER SOLD, DELIVERED AND RELINQUISHED UNDER THE TERMS OF ACT No. 178 APPROVED MAY 14, 1941

SISTEMA DE RIEGO

TABLA No. III

AGUA VENDIDA, ENTREGADA Y CADUCADA DE ACUERDO CON TERMINOS DE LA LEY No. 178, APROBADA EN MAYO 14, 1941

Classification		Balance 1942-43	Orders issued	Amount Sold A. F.	Unit price	Total Value	Delivered Acre-Feet				Relinquished A. P.	Balance
							By Gravity	By pumps	Tolerances	Total		
Clasificación		Balance 1942–43	Ordenes expedidas	Cantidad vendida A. P.	Precio unitario	Importe	Entregada Acre-Pies				Caducada A. P.	Balance
							Por gravedad	Bombeada	Tolerancias	Total		
PARCELS INCLUDED AND QUOTA PAID:	PREDIOS INCLUIDOS Y CUOTA SATISFECHA:											
By Gravity	Por Gravedad	16.18	346	1,769.94	$2.00	$3,539.88	1,570.17		—0.15	1,570.02	10.29	205.81
Mantilla Pump	Bomba Mantilla		1	1.00	2.00	2.00		0.47		0.47		0.53
Guerrero Pump	Bomba Guerrero		2	1.60	2.00	3.20		1.60		1.60		
PARCELS INCLUDED AND QUOTA NOT P ID:	PREDIOS INCLUIDOS Y CUOTA NO SATISFECHA:											
By Gravity	Por Gravedad	15.38	363	352.51	$2.50	$881.28	329.13		—.77	328.36	6.77	32.76
Ma tilla Pump	Bomba Mantilla		1	20.00	2.50	50.00		15.01		15.01		4.99
Guerrero Pump	Bomba Guerrero		5	9.10	2.50	22.75		8.65		8.65		.45
PARCELS NOT INCLUDED:	PREDIOS NO INCLUIDOS:											
By Gravity	Por Gravedad	1.82	90	80.21	2.50	200.54	62.05		—.04	62.09	1.41	18.53
Mant.lla Pump	Bomba Mantilla											
Guerrero Pump	Bomba Guerrero											
TOTALS	(TOTALES)	33.38	808	2,234.36	$16.00	$4,699.65	1,961.35	25.73	—.88	1986.20	18.47	263.07

IRRIGATION SYSTEM

TABLE No. IV

SALES OF IRRIGATION WATER UNDER THE TERMS OF ACT No. 178 APPROVED MAY 14, 1941

SISTEMA DE RIEGO

TABLA No. IV

VENTAS DE AGUA PARA FINES DE RIEGO DE ACUERDO CON LO TERMINOS DE LA LEY No. 178 APROBADA EN MAYO 14, 1941

Month	Amount Sold Acre-Feet	Delivery Acre-Feet				Relinquished Acre-Feet	Balance to Credit of Water Users Acre-Feet
		By Gravity	By Pumps	Tolerances	Actual Delivery		
Mes	Cantidad Vendida Acre-Pies	Entrega Acre-Pies				Caducada Acre-pies	Balance a Favor del Agricultor Acre-Pies
		Por Gravedad	Por Bombas	Tolerancias	Entrega Neta		
1943							
June	...	...	...	...	...	...	33.38
July	63.50	66.55	...	—0.12	66.43	0.61	29.84
August	33.90	14.70	...	—0.09	14.61	1.30	47.83
September	212.80	159.57	...	+0.12	159.49	4.77	96.37
October	109.60	62.26	...	—0.18	62.08	2.23	141.66
November	314.56	340.24	2.25	—0.09	342.40	0.09	113.73
December	495.59	499.06	6.65	—0.63	505.08	0.46	103.78
1944							
January	382.04	344.72	2.93	—0.09	347.56	6.23	132.03
February	151.37	190.98	4.68	+0.39	196.05	0.38	86.97
March	436.14	229.72	9.22	—0.08	238.86	2.40	281.85
April	5.97	4.94	...	+0.02	4.96	...	282.86
May	18.95	39.93	...	—0.02	39.91	...	261.90
June	9.94	8.88	...	—0.11	8.77	...	263.07
Totals (Totales)	2,234.36	1,961.55	25.73	—0.88	1,986.20	18.47	263.07

IRRIGATION SYSTEM

TABLE No. IV-A

ALLOTMENT WATER SERVED UNDER TERMS OF ACT No. 178 APPROVED ON MAY 14, 1941

SISTEMA DE RIEGO

TABLA No. IV-A

SERVICIO DE AGUA POR DOTACION CONFORME A LOS TERMINOS DE LA LEY No. 178 APROBADA EN MAYO 14, 1941

Month	Allotment Acre-Feet	Delivery Acre-Feet			Excess Delivery to Deduct	Balance to Credit of Water Users Acre-Feet
		By Gravity	By Pumps	Total		
Mes	Dotación Acre-Pies	Entrega Acre-Pies			Exceso a Deducir	Balance a Favor del Agricultor Acre-Pies
		Por Gravedad	Por Bombas	Total		
1943						
June	....	....	....	....	....	33.70
July	566.78	458.82	....	458.82	....	141.66
August	566.78	191.51	.88	192.39	....	516.05
September	566.78	388.81	....	388.81	....	694.02
October	566.78	196.05	.45	196.50	....	1,064.30
November	566.78	794.15	....	794.15	....	836.93
December	566.78	673.01	3.76	676.77	....	726.94
1944						
January	566.78	848.84	2.69	851.53	....	442.19
February	566.78	373.28	140.93	514.21	....	494.76
March	566.78	132.24	98.47	230.71	....	830.83
April	566.78	1.38	....	1.38	....	1,396.23
May	566.78	32.02	....	32.02	....	1,930.99
June	566.79	15.25	....	15.25	....	2,482.53
Totals (Totales)	6,801.37	4,105.36	247.18	4,352.54	....	2,482.53

Allotment waters not used during the year are relinquished on October 31.
Aguas de dotación no usadas durante el año caducan en octubre 31.

IRRIGATION SYSTEM

TABLE NO. V

SOUTH VALLEY PUMPING UNITS OPERATING DATA

SISTEMA DE RIEGO

TABLA NO. V

FUNCIONAMIENTO DE LAS ESTACIONES DE BOMBEO DEL VALLE EL SUR

FACTORS	FACTORES	PUMP BOMBA	
		Mantilla	Guerrero
MANUFACTURER'S RATING:	DATOS DE FABRICA		
Pump:	Bomba:		
Type	Tipo	Centrifugal Centrífuga	Centrifugal Centrífuga
Capacity:	Capacidad:		
G. P. M.	G. P. M.	1,000	3,600
C. F. S.	P. C. S.	2.5	8.0
Head (ft.)	Carga Hidrostática (Pies)	57.4	88.0
Electric Motor:	Motor Eléctrico:		
Type	Tipo	Induction Inducción	Induction Inducción
H. P.	Caballos de Fuerza	20.	100.0
R. P. M.	R. P. M.	1,740.	1,750.
PERFORMANCE:	RESULTADOS PRACTICOS:		
Discharge:	Caudal:		
Maximum obtained (C.F.S.)	Máximo obtenido (P.C.S.)	2.00	6.28
Mean (C. F. S.)	Promedio (P. C. S.)	1.84	4.99
Total (Acre-Feet)	Total (Acre-Pies)	96.95	248.53
Time Worked (Hours)	Tiempo Trabajado (Horas)	630.50	597.00
Head (Feet)	Carga Hidrostática (Pies)	56.20	87.50
Water Horse Power	Rendimiento (C. de F.)	11.74	49.48
Consumption (K. W. Hrs.)	Consumo (K. V. Hrs.)	87.70	29.80
Consumption (K. W.)	Consumo (K. V.)	13.98	49.92
Consumption (H. P.)	Consumo (C. de F.)	18.73	66.89
Efficiency (%)	Eficiencia (%)	62.67	73.97

TOTALS FOR THE TWO UNITS:	TOTALES PARA LAS DOS UNIDADES:
Discharges 345.47 (Acre-Feet)	Caudal 345.47 (Acre-Pies)
Consumption 38,570. (K. W. Hrs.)	Consumo 38,570. (K. V. Hrs.)

IRRIGATION SYSTEM

TABLE NO. VI

LAWS PROVIDING METHOD OF DETERMINING IRRIGATION TAXES LEVIED

ORIGINAL	AMENDATORY				SPECIAL		
63 6/19/19	29 4/21/28	J. R. No. 12 7/3/29	96 5/15/31	70 5/15/34	76 5/12/36	146 5/15/37	178 5/14/41
Temporary District 1st. Yr.-Nothing Succeeding Years— Not over $1[illegible].00 Permanent District 1st. Semester— Not over $12.00 Succeeding Years— Assessment as per tax roll	Temporary District 1st. Yr.-Nothing Succeeding Years— $10.00 Permanent District 1st. three years— Not over $12.00 Succeeding Years— Not over $17.00	1st. Yr.-Nothing 2nd. Yr.- $6. 3rd Yr.- 12.00 4th Yr.- 13.00 5th. Yr. 15.00 Succeeding Yrs. Not over $15.00	1st. Yr.-Nothing 2nd. Yr.- $6.00 3rd. Yr.- 6.00 4th. Yr.- 7.00 5th. Yr.- 8.00 6th. Yr.- 9.00 7th. Yr.- 6.00 Succeeding Yrs.- Not over $15.00	1st. Yr.-Nothing 2nd. Yr.- 6.00 3rd. Yr.- 6.00 4th. Yr.- 7.00 5th. Yr.- 8.00 6th. Yr.- 9.00 7th. Yr.- 6.00 8th. Yr.- 6.00 9th. Yr.- 6.00 10th. Yr.- 6.00 11th. Yr.- 6.00 12th. Yr.- 10.00 13th. Yr.- 11.00 14th. Yr.- 12.00 15th. Yr.- 13.00 16th. Yr.- 14.00 17th. Yr.- 15.00 Succeeding Yrs.- Not over $15.00	Suspending until June 30, 1941 section No. 29 of the Isabela Public Irrigation Law as was afterwards amended and establishing during said suspension the Optional Plan which provides the levying of a tax or quota of $1.00 per acre per year and directs the seiling of water at the rate of $2.00 per acre-foot to the tracts for which said quota has been paid and at $2.50 to tracts for which said quota has not been paid.	Readjusting the indebtedness of the water users accumulated up to June 30, 1936, in such a way as to cancell the same if payment in advance be made for the amount of $1.00 per acre per year plus the value of the water delivered to the farm for the benefit to the land calculated at the rate of $1.00 per acre-foot.	Suspending until June 30, 1951, section No. 29 of the Isabela Public Irrigation Law, as amended afterwards, and establishing during said period of suspension a plan which provides for the levying of a tax or quota and sales of water as follows: Plots with 10 acres or less, $1.00 per acre per year with right to purchase water. Plots with more than 10 acres included, $1.00 per acre per year for the first 10 acres, and $4.00 per acre per year for all excess above first 10 acres with the water dotation of 1½ acre-foot per acre per year and the right to purchase water if needed. Price of water: $2.00 per acre-foot to plots with quotas paid up and $2.50 to plots with quotas unpaid.

METHOD OF DETERMINING THE TAX ROLL PROVIDED BY VIRTUE OF ACT NO. 63 AND AMENDATORY LAWS:—Adding the amortization, interest and operation and maintenance expenses; adding or subtracting the deficit or superavit of the previous year; subtracting the receipts from the hydroelectric plant less the amount deducted for the development and extension of the same; subtracting any other revenues; and adding 2% of this total as margin of safety on delay collections; and the amount resulting distributed proportionally between the different acres under irrigation. Joint Resolution No. 12 and acts No. 96 and 70 provided the necessary arrangements to cover the annual deficit resulting between this tax roll and the maximum quota provided by said laws.

IRREMA DE RIEGO

ABLA No. VII

INCOME FROML SISTEMA DEL RIEGO

Period	Year (Part)	ter		Income
		For Waterworks, Residences and Industrial Users	Total	
Período	Año (Parte)	ua		
		Para Acueductos y fines Domésticos e ndustriales	Total	Total Ingresos
1st. (1°)....	1928–29....	....	$6.25	$306.57
1st. (1°)....	1929–30....	$3.00	702.71	19,614.58
1st. (1°)....	1930–31....	19.51	19.51	6,896.38
1st. (1°)....	1931–32....	37.83	55.92	12,252.73
1st. (1°)....	1932–33....	22.61	32.97	386.50
1st. (1°)....	1933–34....	49.74	49.74	834.63
2nd. (2°)...	1934–35....	52.35	61.35	43,249.64
2nd. (2°)...	1935–36....	47.66	261.10	35,855.96
3rd. (3°)...	1936–37....	174.15	16,650.13	53,652.11
3rd. (3°)...	1937–38....	745.73	21,301.59	38,080.90
3rd. (3°)...	1938–39....	1,034.95	6,937.12	23,603.46
3rd. (3°)...	1939–40....	2,454.03	6,546.63	38,209.92
3rd. (3°)...	1940–41....	2,700.03	7,378.68	27,951.89
4th. (4°)...	1941–42....	8,086.73	9,796.18	33,451.65
4th. (4°)...	1942–43....	13,875.36	14,301.41	36,262.49
4th. (4°)...	1943–44....	13,550.54	18,250.19	43,127.35
Totals....	(Totales)	42,854.22	$102,351.48	$413,736.76

IRRIGATION SYSTEM

TABLE NO. VII

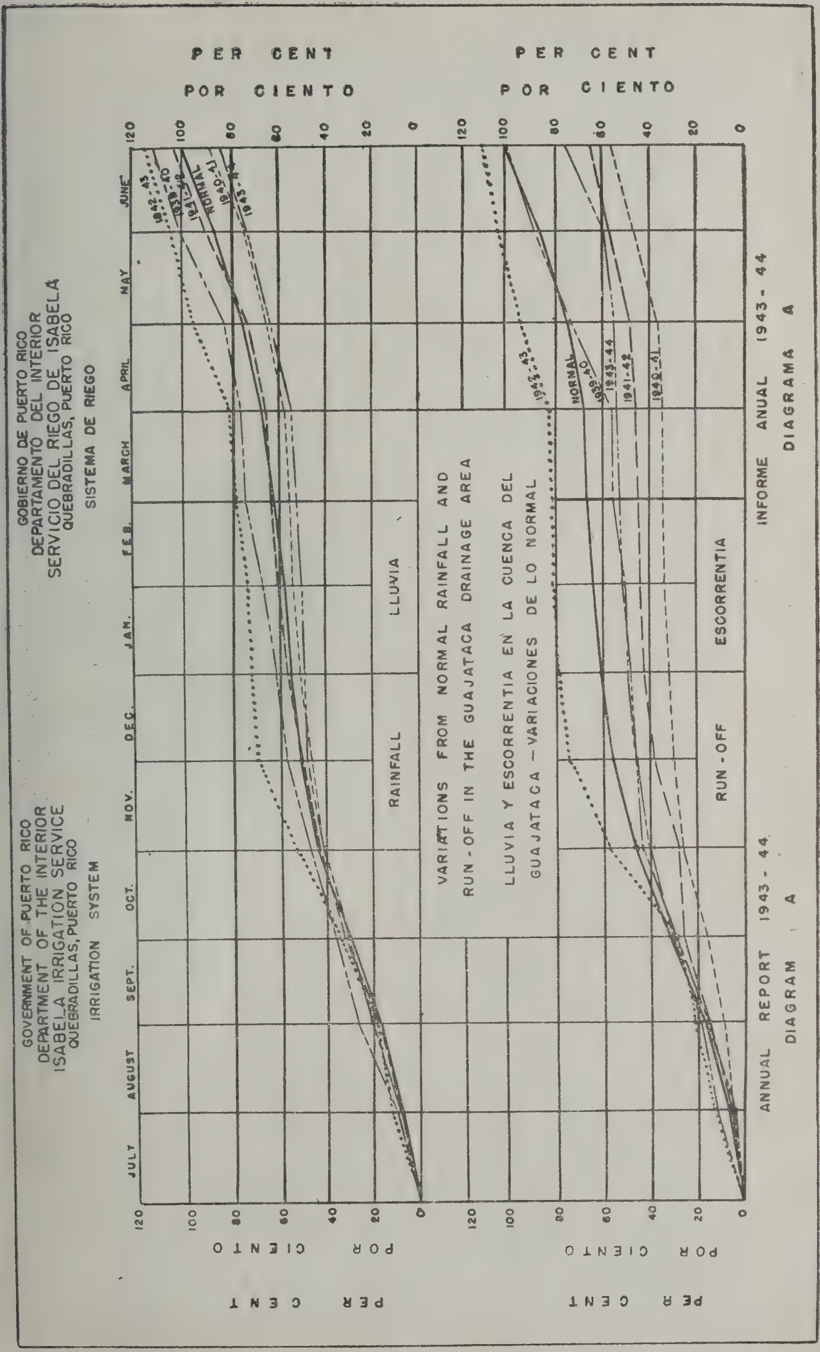
INCOME FROM THE IRRIGATION SYSTEM

SISTEMA DE RIEGO

TABLA NO. VII

INGRESOS DEL SISTEMA DEL RIEGO

Period	Year (Part)	Assessments										Sales of Water					Income
		Levied		Collected													
				As Levied													
		Per Acre	Total For Entire District	First Period	Second Period	Third Period	Fourth Period	As Deferred	As Readjusted	As Surcharges & Interests	Total	Surplus Water For Irrigation	For Irrigation Act No. 78 of May 12, 1936	For Irrigation Act. No. 178 of May 14, 1941	For Water-works, Residences and Industrial Users	Total	
Período	Año (Parte)	Contribuciones										Ventas de Agua					Total Ingresos
		Impuestas		Cobradas													
				Impuestas													
		Por Acre	Total Para el Distrito	Primer Período	Segundo Período	Tercer Período	Cuarto Período	Diferidas	Reajustadas	Recargos e Intereses	Total	Excedente Para Riego	Para Riego Ley No. 78 de mayo 12, 1936	Para Riego Ley No. 178 de mayo 14, 1941	Para Acueductos y fines Domésticos e Industriales	Total	
1st. (1°)	1928–29	$6.00	$12,162.69	$300.32							$300.32	$6.25				$6.25	$306.57
1st. (1°)	1929–30	6.00	47,858.64	18,911.87							18,911.87	699.71			$3.00	702.71	19,614.58
1st. (1°)	1930–31	6.00	61,872.46	6,301.10						$575.77	6,876.87				19.51	19.51	6,896.38
1st. (1°)	1931–32	7.00	70,692.28	11,186.17						1,010.64	12,196.81	18.09			37.83	55.92	12,252.73
1st. (1°)	1932–33	8.00	82,026.31	325.80						27.73	353.53	10.36			22.61	32.97	386.50
1st. (1°)	1933–34	9.00	92,599.86	737.03						47.86	784.89				49.74	49.74	834.63
2nd. (2°)	1934–35	6.00	72,669.44		$34,691.38			$5,325.02		3,171.89	43,188.29	9.00			52.35	61.35	43,249.64
2nd. (2°)	1935–36	6.00	66,523.62		27,341.65			5,406.46		2,846.75	35,594.86	213.44			47.66	261.10	35,855.96
3rd. (3°)	1936–37	1.00	10,846.26		16,616.17	$6,162.14		8,661.34		5,562.33	37,001.98		$16,475.98		174.15	16,650.13	53,652.11
3rd. (3°)	1937–38	1.00	9,821.61		570.09	5,358.29		4,404.88	$3,669.69	2,776.36	16,779.31		20,555.86		745.73	21,301.59	38,080.90
3rd. (3°)	1938–39	1.00	9,693.66		1,975.69	5,889.70			8,657.03	143.92	16,666.34		5,902.17		1,034.95	6,937.12	23,603.46
3rd. (3°)	1939–40	1.00	9,693.45			10,536.90			20,634.68	491.71	31,663.29		4,092.60		2,454.03	6,546.63	38,209.92
3rd. (3°)	1940–41	1.00	9,693.70			12,610.42			7,280.61	682.18	20,573.21		4,678.65		2,700.03	7,378.68	27,951.89
4th. (4°)	1941–42	(1.00) (4.00)	26,233.46				$21,403.63		2,075.83	176.01	23,655.47			$1,709.45	8,086.73	9,796.18	33,451.65
4th. (4°)	1942–43	(1.00) (1.00)	25,985 14				19,495.14		2,141.00	324 94	21,961.08			426.05	13,875.36	14,301.41	36,262 49
4th. (4°)	1943–44	(4.00)	21,541.68				23,341.44		1,157.14	378.58	24,877.16			4,699.65	13,550.54	18,250.19	43,127.35
Totals	(Totales)		$629,914 26	$37,762 29	$81,194 98	$40,557 45	$64,240 21	$23,797 70	$45,615 98	$18,216 67	$311,385 28	$956 85	$51,705 26	$6,835 15	$42,854 22	$102,351 48	$413,736 76


GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
IRRIGATION SYSTEM
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA DE RIEGO
PER CENT
POR CIENTO
120
100
80
60
40
20
0
JULY
AUGUST
SEPT.
OCT.
NOV.
DEC.
JAN.
FEB.
MARCH
APRIL
MAY
JUNE
1942-43
1939-40
1941-42
NORMAL
1940-41
1943-44
RAINFALL
LLUVIA
VARIATIONS FROM NORMAL RAINFALL AND RUN-OFF IN THE GUAJATACA DRAINAGE AREA
LLUVIA Y ESCORRENTIA EN LA CUENCA DEL GUAJATACA — VARIACIONES DE LO NORMAL
RUN-OFF
ESCORRENTIA
ANNUAL REPORT 1943-44
DIAGRAM A
INFORME ANUAL 1943-44
DIAGRAMA A

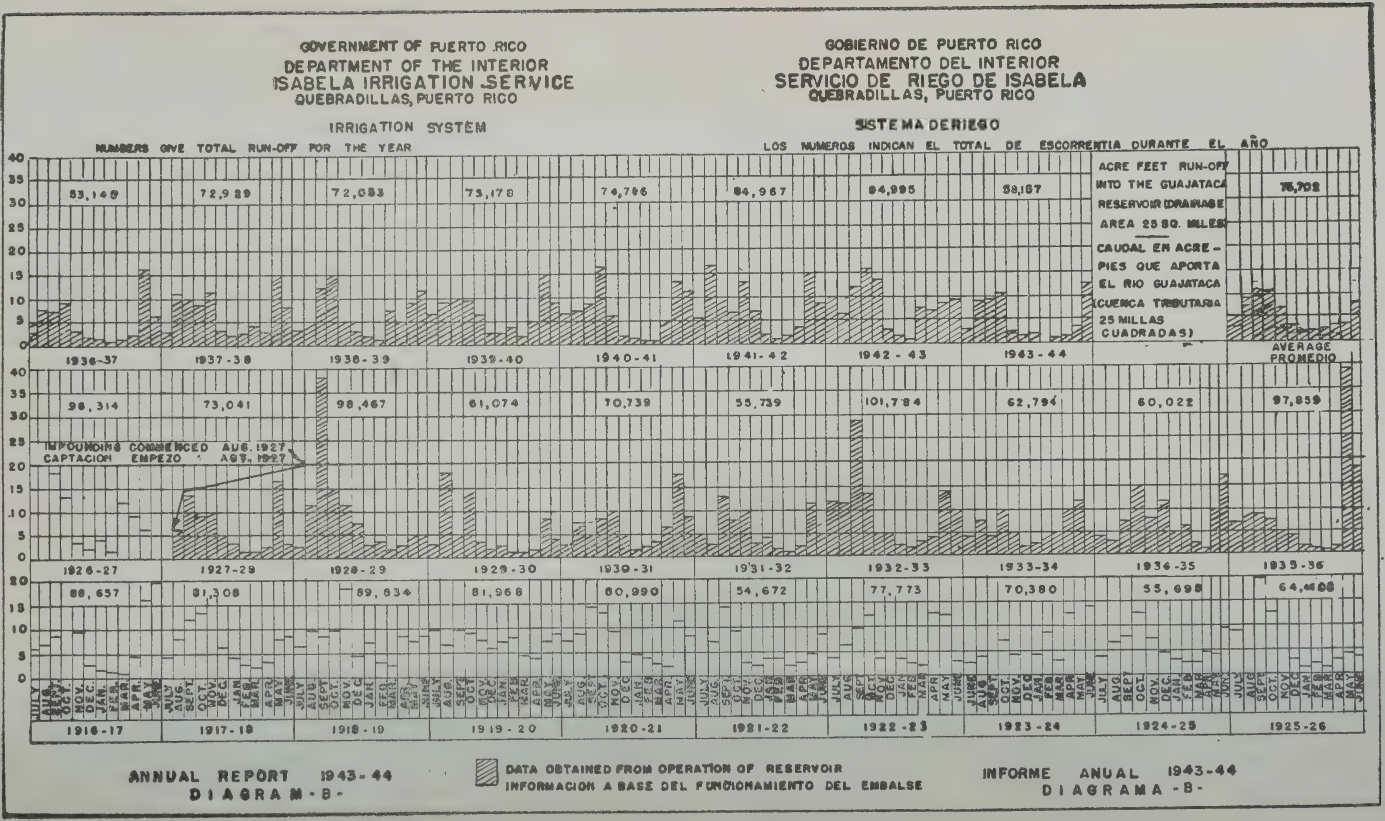


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DIAGRAM -B-

INFORME ANUAL 1943-44
DIAGRAMA -B-

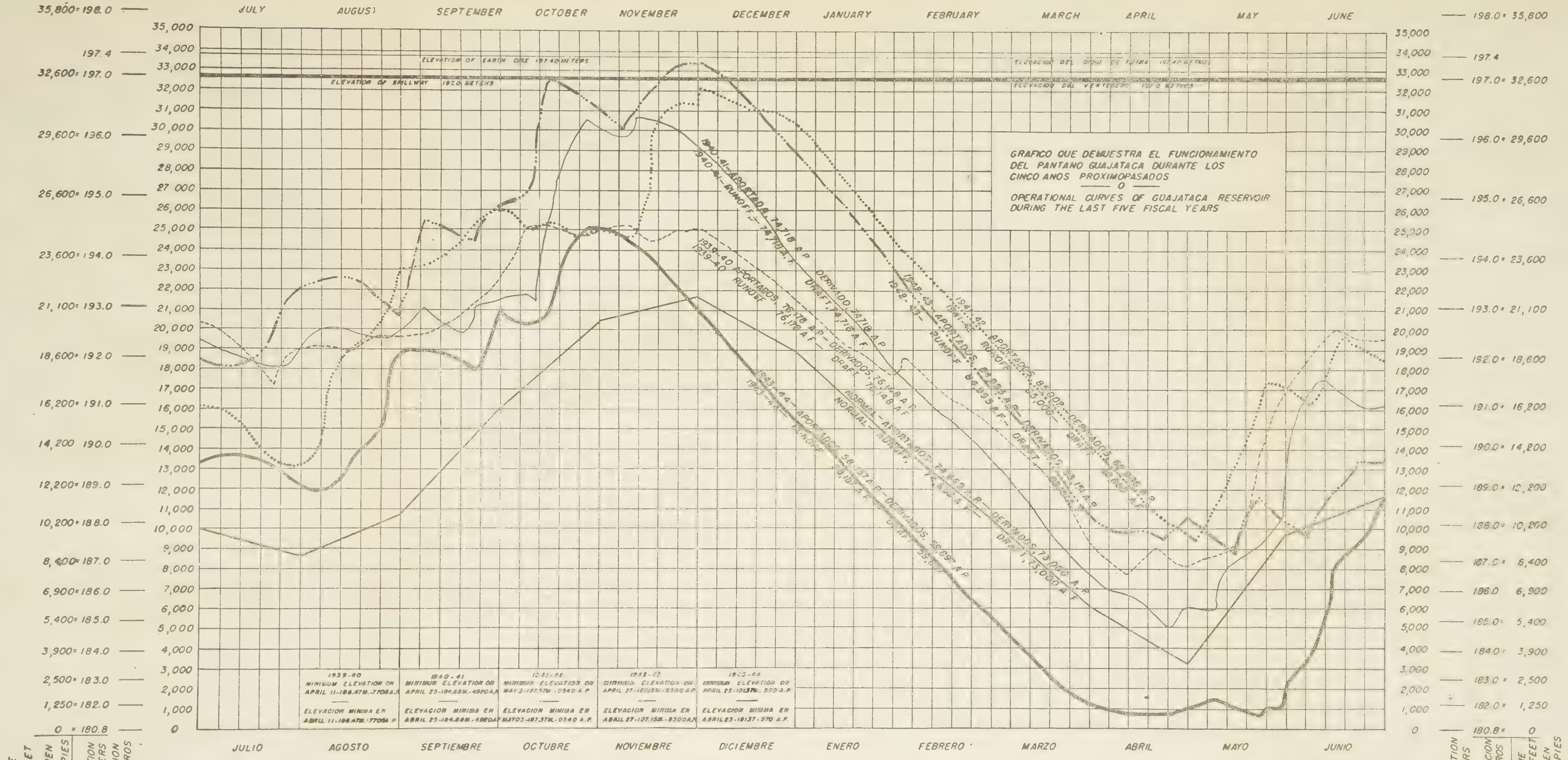


GRAFICO QUE DEMUESTRA EL FUNCIONAMIENTO DEL PANTANO GUAJATACA DURANTE LOS CINCO ANOS PROXIMOPASADOS

O

OPERATIONAL CURVES OF GUAJATACA RESERVOIR DURING THE LAST FIVE FISCAL YEARS

SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, P. R.

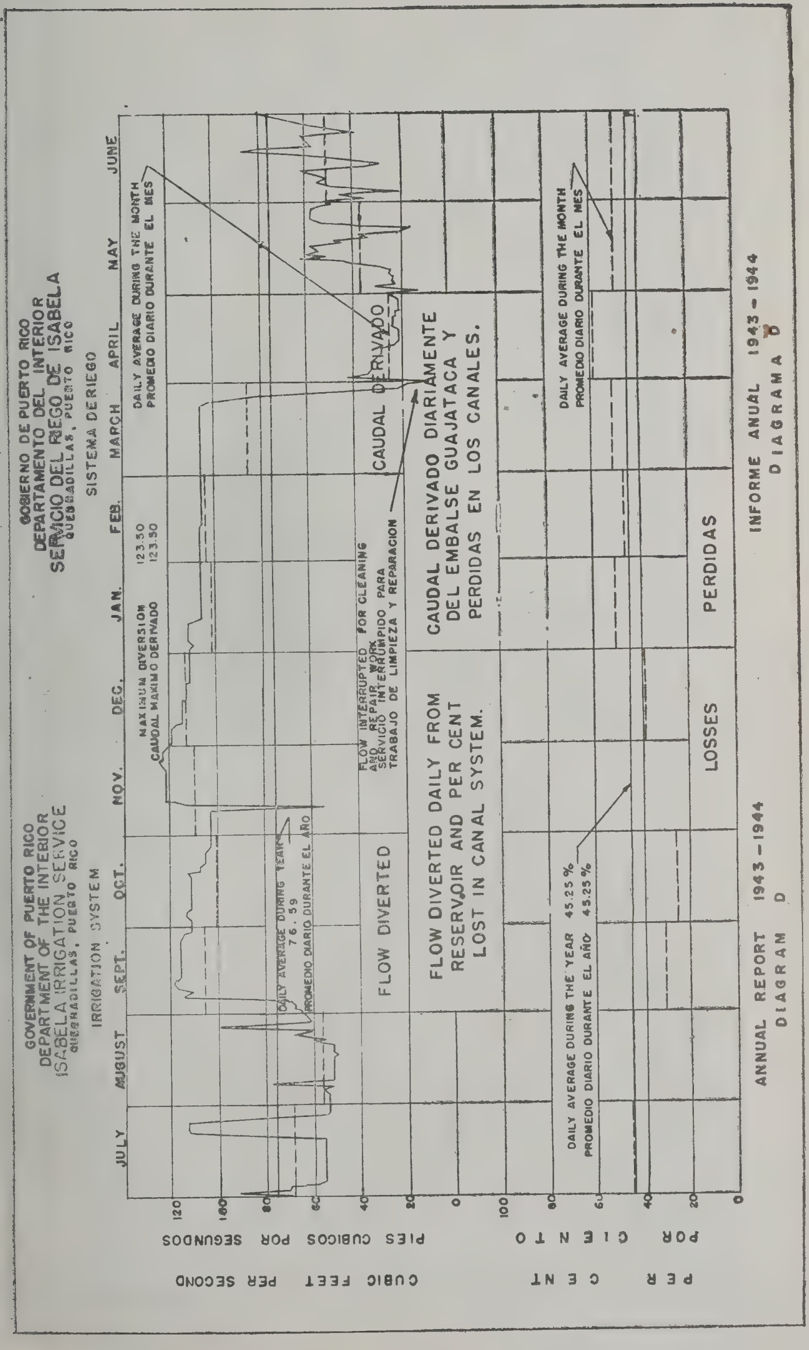
DIAGRAMA C
DIAGRAM C

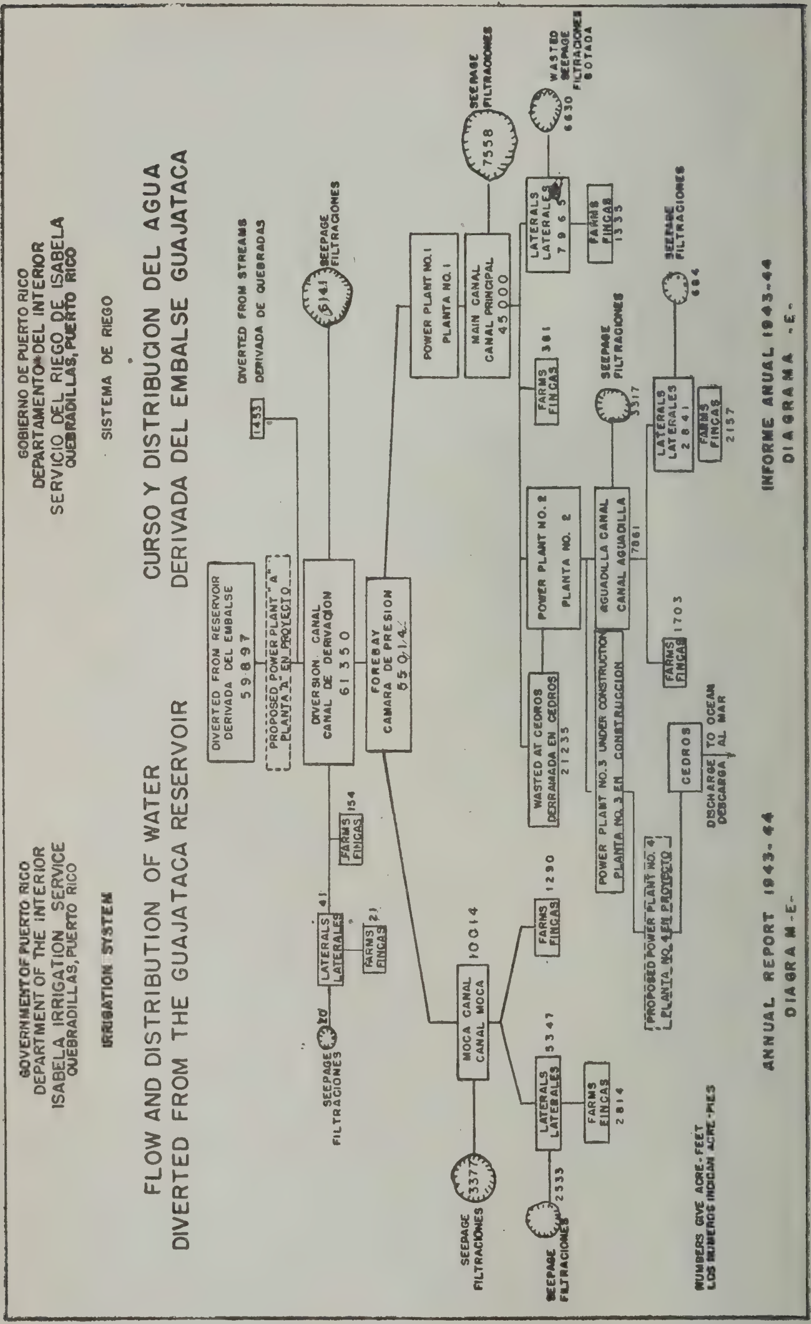
THE NORMAL CURVE WAS CONSTRUCTED ON THE BASIS OF THE AVERAGE MONTHLY RUNOFF SINCE THE YEAR 1927, A DAILY DRAFT OF 200 ACRE FEET AND 10,000 ACRE FEET IMPOUNDED ON JULY 1ST.

LA CURVA NORMAL FUE CALCULADA A BASE DEL PROMEDIO MENSUAL DE ESCORRENTIA DESDE EL AÑO 1927, DERIVANDO 200 ACRE PIES DIARIOS Y DADOS 10,000 ACRES PIES EMBALSADOS AL INICIARSE EL AÑO FISCAL.

ISABELA IRRIGATION SERVICE
QUEBRADILLAS, P. R.

INFORME ANUAL 1943-44
ANNUAL REPORT 1943-44


GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
IRRIGATION SYSTEM
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA DE RIEGO
JULY
AUGUST
SEPT.
OCT.
NOV.
DEC.
JAN.
FEB.
MARCH
APRIL
MAY
JUNE
CUBIC FEET PER SECOND
PIES CUBICOS POR SEGUNDOS
120
100
80
60
40
20
0
PER CENT
POR CIENTO
100
80
60
40
20
0
DAILY AVERAGE DURING YEAR 76.59
PROMEDIO DIARIO DURANTE EL AÑO
MAXIMUM DIVERSION 123.30
CAUDAL MAXIMO DERIVADO 123.30
DAILY AVERAGE DURING THE MONTH
PROMEDIO DIARIO DURANTE EL MES
FLOW INTERRUPTED FOR CLEANING AND REPAIR WORK
SERVICIO INTERRUMPIDO PARA TRABAJO DE LIMPIEZA Y REPARACION
FLOW DIVERTED
CAUDAL DERIVADO
FLOW DIVERTED DAILY FROM RESERVOIR AND PER CENT LOST IN CANAL SYSTEM.
CAUDAL DERIVADO DIARIAMENTE DEL EMBALSE GUAJATACA Y PERDIDAS EN LOS CANALES.
DAILY AVERAGE DURING THE YEAR 45.25 %
PROMEDIO DIARIO DURANTE EL AÑO 45.25 %
DAILY AVERAGE DURING THE MONTH
PROMEDIO DIARIO DURANTE EL MES
LOSSES
PERDIDAS
ANNUAL REPORT 1943 – 1944
DIAGRAM D
INFORME ANUAL 1943 – 1944
DIAGRAMA D

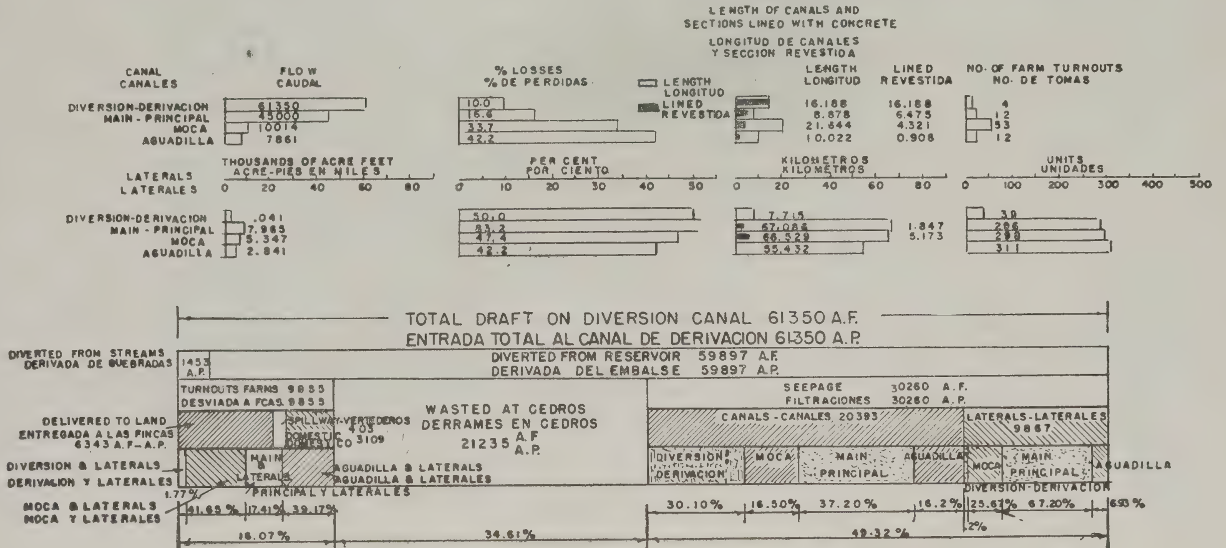

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
IRRIGATION SYSTEM
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA DE RIEGO
FLOW AND DISTRIBUTION OF WATER
DIVERTED FROM THE GUAJATACA RESERVOIR
CURSO Y DISTRIBUCION DEL AGUA
DERIVADA DEL EMBALSE GUAJATACA
DIVERTED FROM RESERVOIR
DERIVADA DEL EMBALSE
59 897
PROPOSED POWER PLANT "A"
PLANTA "A" EN PROYECTO
1433
DIVERTED FROM STREAMS
DERIVADA DE QUEBRADAS
DIVERSION CANAL
CANAL DE DERIVACION
61 350
5141
SEEPAGE
FILTRACIONES
FARMS
FINCAS
154
LATERALS
LATERALES
41
FARMS
FINCAS
21
20
SEEPAGE
FILTRACIONES
FOREBAY
CAMARA DE PRESION
55 014
MOCA CANAL
CANAL MOCA
10014
FARMS
FINCAS
1290
LATERALS
LATERALES
5347
FARMS
FINCAS
2814
3377
SEEPAGE
FILTRACIONES
2533
SEEPAGE
FILTRACIONES
POWER PLANT NO. 1
PLANTA NO. 1
MAIN CANAL
CANAL PRINCIPAL
45 000
7558
SEEPAGE
FILTRACIONES
LATERALS
LATERALES
7 9 6 5
FARMS
FINCAS
1335
6630
WASTED
SEEPAGE
FILTRACIONES
BOTADA
FARMS
FINCAS
381
WASTED AT CEDROS
DERRAMADA EN CEDROS
21235
POWER PLANT NO. 2
PLANTA NO. 2
AGUADILLA CANAL
CANAL AGUADILLA
7861
3317
SEEPAGE
FILTRACIONES
LATERALS
LATERALES
2841
FARMS
FINCAS
2157
684
SEEPAGE
FILTRACIONES
FARMS
FINCAS
1703
POWER PLANT NO. 3 UNDER CONSTRUCTION
PLANTA NO. 3 EN CONSTRUCCION
PROPOSED POWER PLANT NO. 4
PLANTA NO. 4 EN PROYECTO
CEDROS
DISCHARGE
DESCARGA
TO OCEAN
AL MAR
NUMBERS GIVE ACRE-FEET
LOS NUMEROS INDICAN ACRE-PIES
ANNUAL REPORT 1943-44
DIAGRAM -E-
INFORME ANUAL 1943-44
DIAGRAMA -E-

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
IRRIGATION SYSTEM

GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA DE RIEGO

CONTROLLING FEATURES OF WATER DISTRIBUTION SYSTEM AND OPERATING RESULTS OBTAINED

FUNCIONAMIENTO DEL SISTEMA DE CANALES Y LATERALES FACTORES CARACTERISTICOS QUE LO AFECTAN Y RESULTADOS QUE SE OBTIENEN



ANNUAL REPORT 1943-1944
DIAGRAM F.

INFORME ANUAL 1943-1944
DIAGRAMA F.

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO

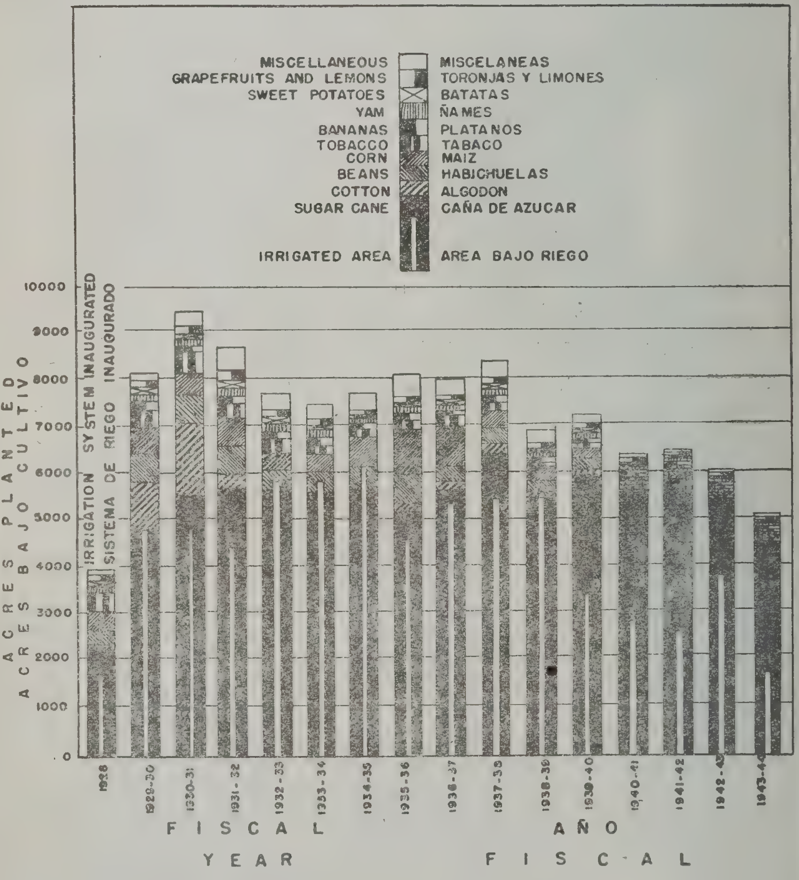
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO

IRRIGATION SYSTEM

SISTEMA DE RIEGO

CROP CENSUS

CENSO DE COSECHAS

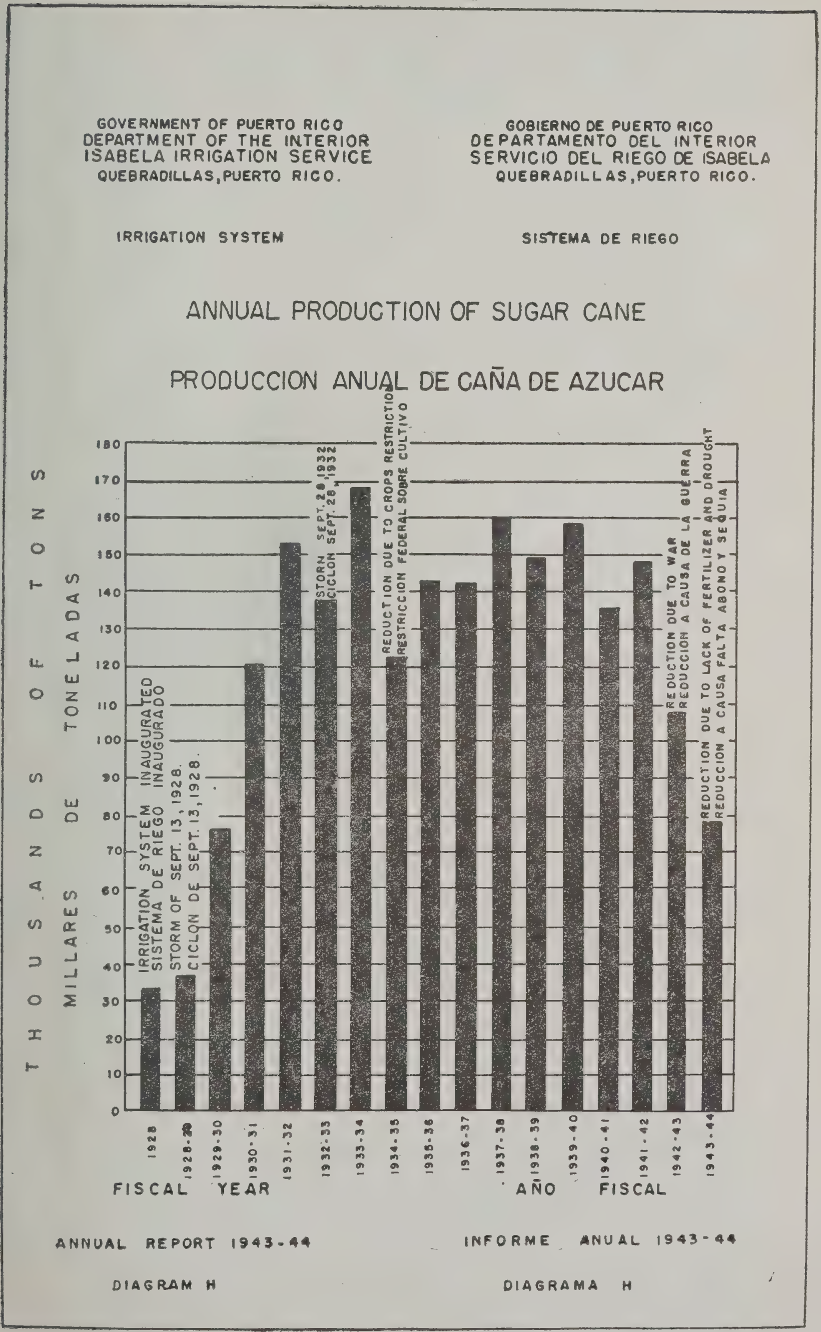


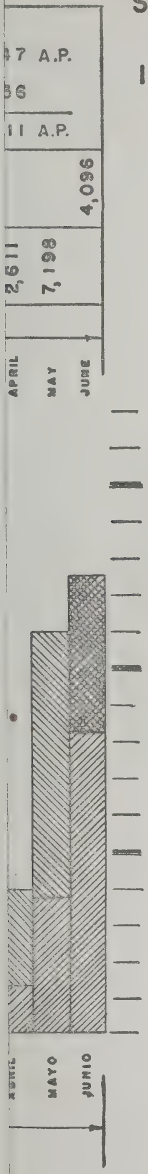
ANNUAL REPORT 1943-44

DIAGRAM G

INFORME ANUAL 1943-44

DIAGRAMA G


GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO.
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO.
IRRIGATION SYSTEM
SISTEMA DE RIEGO
ANNUAL PRODUCTION OF SUGAR CANE
PRODUCCION ANUAL DE CAÑA DE AZUCAR
THOUSANDS OF TONS
MILLARES DE TONELADAS
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
IRRIGATION SYSTEM INAUGURATED
SISTEMA DE RIEGO INAUGURADO
STORM OF SEPT. 13, 1928.
CICLON DE SEPT. 13, 1928.
STORN SEPT. 28 1932
CICLON SEPT. 28, 1932
REDUCTION DUE TO CROPS RESTRICTIO
RESTRICCION FEDERAL SOBRE CULTIVO
REDUCTION DUE TO WAR
REDUCCION A CAUSA DE LA GUERRA
REDUCTION DUE TO LACK OF FERTILIZER AND DROUGHT
REDUCCION A CAUSA FALTA ABONO Y SEQUIA
1928
1928-29
1929-30
1930-31
1931-32
1932-33
1933-34
1934-35
1935-36
1936-37
1937-38
1938-39
1939-40
1940-41
1941-42
1942-43
1943-44
FISCAL YEAR
AÑO FISCAL
ANNUAL REPORT 1943-44
INFORME ANUAL 1943-44
DIAGRAM H
DIAGRAMA H



SERVICIO DEL RIEGO DE ISABELA

QUEBRADILLAS, P.R.

ISABELA IRRIGATION SERVICE

QUEBRADILLAS, P.R.

COMPARATIVE GRAPH:
HYDROLOGY OF GUAJATACA RESERVOIR
FOR THE FISCAL YEARS 1941-42, 1942-43
AND 1943-44 AS COMPARED WITH
THE MEAN FOR 28 YEARS.

GRAFICO COMPARATIVO DEL REGIMEN
HIDROLOGICO DEL PANTANO GUAJATACA
DURANTE LOS AÑOS INDICADOS EN
COMPARACION CON EL PROMEDIO DE
28 AÑOS.

LEGEND LEYENDA

- ▩ MONTHLY EXCESS ABOVE MEAN
  EXCESO MENSUAL SOBRE PROMEDIO
- ▨ MONTHLY DEFFICIENCY BELOW MEAN
  DEFICIENCIA MENSUAL BAJO PROMEDIO
- ━ MEAN RUNOFF FOR 28 YEARS
  LINEA DE ESCORRENTIA
- — MONTHLY RUNOFF
  LINEA DE ESCORRENTIA MENSUAL

DIAGRAM NO. I
DIAGRAMA NUM. I

ANNUAL REPORT 1943-44
INFORME ANUAL 1943-44

SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, P.R.

ISABELA IRRIGATION SERVICE
QUEBRADILLAS, P.R.

BALANCES ANUALES YEARLY STATEMENT	1941-42		1942-43		1943-44	
	EXCESO EXCESS	20,080 A.P.	EXCESO EXCESS	19,489 A.P.	DEFICIENCIA DEFFICIENCY	27,647 A.P.
	DEFICIENCIA DEFFICIENCY	10,780	DEFICIENCIA DEFFICIENCY	10,161	EXCESO EXCESS	6,036
	EXCESO NETO NET EXCESS	9,300 A.P.	EXCESO NETO NET EXCESS	9,328 A.P.	DEFICIENCIA NETA NET DEFFICIENCY	21,611 A.P.

1941-42

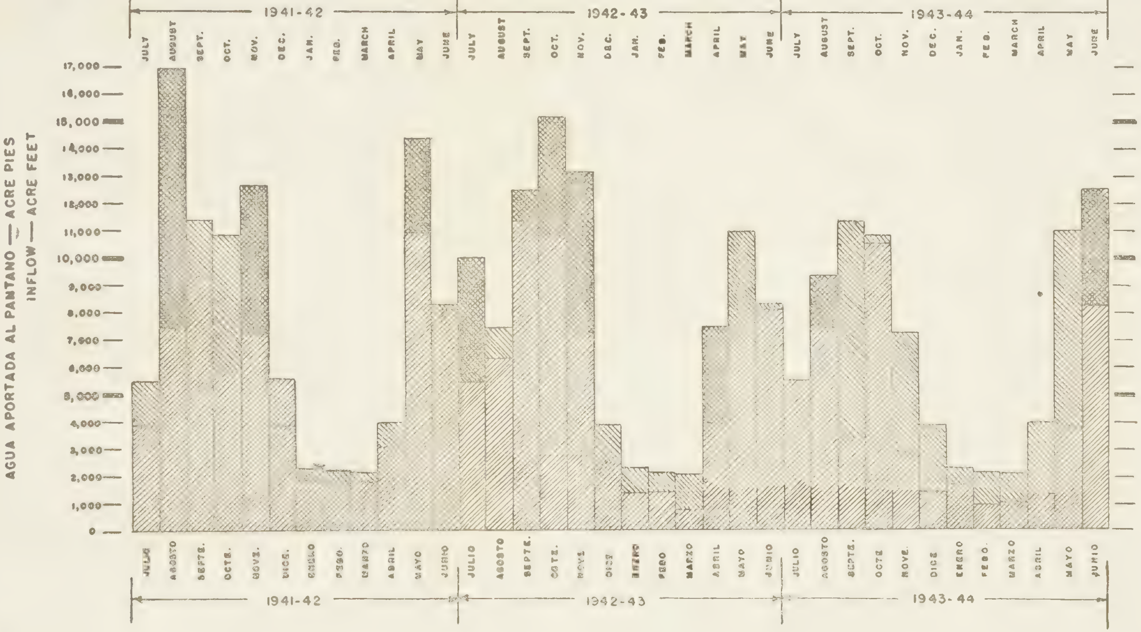
	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE
EXCESO SOBRE EL PROMEDIO EXCESS ABOVE MEAN		9,493			5,406	1,775					3,406	
DEFICIENCIA BAJO EL PROMEDIO DEFFICIENCY BELOW MEAN	1,591		1,954	4,999			451	402	278	896		211

1942-43

	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE
EXCESO SOBRE EL PROMEDIO EXCESS ABOVE MEAN	4,546		1,149	4,327	5,908					3,559		
DEFICIENCIA BAJO EL PROMEDIO DEFFICIENCY BELOW MEAN		1,146				1,225	928	712	1,323		4,659	168

1943-44

	JULY	AUGUST	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MARCH	APRIL	MAY	JUNE
EXCESO SOBRE EL PROMEDIO EXCESS ABOVE MEAN		1,940										4,096
DEFICIENCIA BAJO EL PROMEDIO DEFFICIENCY BELOW MEAN	39		8,004	297	4,376	2,379	572	1,145	1,026	2,611	7,198	



COMPARATIVE GRAPH:
HYDROLOGY OF GUAJATACA RESERVOIR FOR THE FISCAL YEARS 1941-42, 1942-43 AND 1943-44 AS COMPARED WITH THE MEAN FOR 28 YEARS.

GRAFICO COMPARATIVO DEL REGIMEN HIDROLOGICO DEL PANTANO GUAJATACA DURANTE LOS AÑOS INDICADOS EN COMPARACION CON EL PROMEDIO DE 28 AÑOS.

LEGEND LEYENDA

- ▩ MONTHLY EXCESS ABOVE MEAN / EXCESO MENSUAL SOBRE PROMEDIO
- ▨ MONTHLY DEFFICIENCY BELOW MEAN / DEFICIENCIA MENSUAL BAJO PROMEDIO
- ━ MEAN RUNOFF FOR 28 YEARS / LINEA DE ESCORRENTIA
- — MONTHLY RUNOFF / LINEA DE ESCORRENTIA MENSUAL

DIAGRAM NO. I
DIAGRAMA NUM. I

ANNUAL REPORT 1943-44
INFORME ANUAL 1943-44

TABLES AND DIAGRAMS
OF THE
HYDROELECTRIC SYSTEM

TABLAS Y DIAGRAMAS
DEL
SISTEMA HIDROELECTRICO

HYDROELECTRIC SYSTEM

TABLE No. 1

GENERATION, PURCHASE AND DELIVERY OF POWER IN KW. HRS.

SISTEMA HIDROELECTRICO

TABLA No. 1

PRODUCCION, COMPRA Y ENTREGA DE ENERGIA EN KV. HRS.

Month	Generated			Purchased.		Total Generated and Purchased	Used by Auxiliaries	Delivered to transmission lines	Delivered to					Total Delivered to Consumers	Losses From Plant to Consumers	
	Plant No. 1	Plant No. 2	Total	From P.R. W.R.A.	From Coloso				Consumers in the District	P.R.W. R.A.	Offices and Service's Camps	I. I. S. water Pumps	Power Plant No. 3			
Mes	Producida			Comprada		Total Producida y Comprada	Usada por Auxiliares	Entregada a las líneas de Transmisión	Entregada a					Total Entregado a consumidores	Pérdidas desde la Planta a los Consumidores	
	Planta No. 1	Planta No. 2	Total	A la Autoridad de F.F.	A Coloso				Consumidores del Distrito	La Autoridad de F. F.	Oficinas y Campamentos	Bombas del Riego	Planta No. 3			
															Kw. Hrs.	%
1943																
July	235, 650	157, 400	393, 050	213, 145	....	606, 195	1, 367	604, 828	461, 648	75, 360	2, 374	....	14, 140	553, 522	51, 306	8.5
August	271, 530	193, 000	464, 530	271, 000	....	735, 530	3, 289	732, 241	472, 421	77, 570	2, 656	101	4, 380	557, 128	175, 113	23.9
Sept	383, 320	177, 900	561, 220	120, 810	....	682, 030	1, 327	680, 703	504, 191	120, 000	2, 640	....	1, 690	628, 521	52, 182	7.7
October	474, 840	184, 490	659, 330	167, 975	....	827, 305	2, 618	824, 687	529, 940	72, 000	2, 792	305	5, 020	610, 057	214, 630	26.0
Nov	485, 390	204, 390	689, 780	146, 035	....	835, 815	3, 238	832, 577	523, 296	186, 590	2. 834	378	6, 900	719, 998	112, 579	13.5
Dec	450, 170	201, 140	651, 310	154, 165	....	805, 475	2. 773	802. 702	486, 517	164. 760	2, 674	2, 156	4, 990	661, 097	141, 605	17.6
1944																
January	395, 030	221, 190	616, 220	131, 260	....	747, 480	3, 514	743, 966	527, 791	179, 400	2, 734	1, 104	5, 580	716, 609	27, 357	3.7
Feb	384, 820	267, 680	652, 500	141, 555	148, 620	942, 675	3, 430	939, 245	504, 388	180, 600	2, 523	19, 421	2, 100	709, 032	230, 213	24.5
March	309, 140	151, 310	460, 450	268, 740	....	729, 190	1, 042	728, 148	463, 791	60, 000	2, 339	15, 105	4, 010	545, 245	182, 903	25.1
April	60. 830	44, 600	105, 430	286. 225	187, 480	579, 135	962	578, 173	493, 803	....	2, 509	....	710	497, 022	81, 151	14.0
May	77, 960	67. 800	145, 760	441, 470	107, 750	694, 980	961	694, 019	505, 452	....	2, 164	....	3. 280	510, 896	183. 123	26.4
June	216, 250	178, 200	394, 450	272, 115	....	666, 565	915	665, 650	519, 070	79, 600	2, 641	....	1, 100	602, 411	63, 239	10.0
TOTAL	3, 744, 930	2, 049, 100	5, 794, 030	2, 614, 495	443, 850	8, 852, 375	25, 436	8, 826, 939	5, 992, 308	1, 195, 880	30, 880	38, 570	53, 900	7, 311, 538	1, 515, 401	17.6

HYDROELECTRIC SYSTEM
TABLE NO. 2
POWER CONTRACTS AS OF JUNE 30, 1944

SISTEMA HIDRIOLECTROCO
TABLA NO. 2
CONTRATOS EN VIGOR EN JUNIO 30, 1944

Classification Clasificación	Rate Tarifa	Hatillo	Camuy	Quebradillas	Iasbela	Aguadilla	Moca	Aguada	Rincón	Añasco	Rural Zone Zona Rular	Totals Totales
Residential—Residencial	1 A	265	351	314	668	2, 505	206	398	161	514	2, 163	7, 545
Residential—Residencial	E.E.	2	1	17	2	8	1	1	1	....	23	56
Residential (with electric ranges) Residencial (con estufa eléctrica)	1 B	5	9	10	24	118	2	10	....	2	38	218
Residential (without meter) Residencial (alumbrado mínimo sin contador)	3	....	....	....	....	....	....	....	....	....	....	....
Commercial—Comercial	2 A	39	48	72	116	388	27	64	25	74	388	1, 241
Commercial (with electric ranges) Comercial (con estufa eléctrica)	2 B	1	1	1	3	15	....	....	1	1	1	24
Industrial—Industrial	4&5	5	5	6	7	35	2	4	....	9	45	118
Central Coloso, Inc.	7	....	....	....	....	....	....	....	....	....	1	1
District Hospital at Aguadilla	7	....	....	....	....	1	....	....	....	....	....	1
Municipal Public Lighting Alumbrado Público Municipal	6	1	1	1	1	3	1	1	1	2	1	13
Interconnection (P. R. W. R. A.)	....	....	....	....	....	....	....	....	....	....	1	1
Power Plant No. 3	Esp.	....	....	....	....	....	....	....	....	....	1	1
P. R. Housing Authority	1 C	....	....	....	1	....	....	....	....	....	1	2
TOTALS—TOTALES	....	318	416	421	822	3, 073	239	478	189	602	2, 663	9, 221

Total, June 30, 1944	9, 221
Total, June 30, 1943	8, 657
Gain	564
Per cent Gain	.065

Total en Junio 30, 1944	9, 221
Total en Junio 30, 1943	8, 657
Aumento	564
Por ciento de Aumento	.065

NOTE:- 97 contracts for temporary lighting for local celebrations were in force as of June 30, 1944, but are not tabulated.
NOTA:- En esta tabla no aparecen tabulados 97 contratos para servicio provisional en fiestas patronales que estaban en vigor en Junio 30, 1944.

HYDROELECTRIC SYSTEM

TABLE No. 3

MONTHLY FLUCTUATIONS OF POWER CONTRACTS

(GENERAL RATES)

SISTEMA HIDROELECTRICO

TABLA No. 3

FLUCTUACIONES MENSUALES EN LOS CONTRATOS

(TARIFAS GENERALES))

Month Mes	Hatillo		Camuy		Quebradillas		Isabela		Aguadilla		Moca		Aguada		Rincón		Añasco		Rural Zone Zona Rural		Totals Totales	
	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled	Issued	Cancelled
	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas	Altas	Bajas
1943																						
July	16	14	6	12	11	13	23	23	121	152	5	4	20	21	2	2	16	15	70	75	290	331
August	6	6	7	3	5	5	25	16	119	87	18	12	27	15	5	2	13	12	77	69	302	227
September	7	5	9	8	6	3	30	29	118	102	10	9	12	15	4	3	26	18	65	48	287	240
October	11	10	11	14	10	6	25	14	129	100	7	11	11	3	4	6	13	11	51	29	272	204
November	10	12	8	8	7	10	28	21	109	95	11	6	13	11	1	3	9	8	36	43	232	217
December	10	6	18	18	7	6	25	17	89	77	9	5	7	7	2	1	15	17	56	46	238	200
1944																						
January	11	5	15	14	7	......	29	29	136	97	12	7	16	14	8	7	11	2	54	44	299	219
February	6	7	10	4	7	7	25	17	113	73	8	8	16	14	6	7	13	7	97	80	301	224
March	11	8	14	10	7	6	11	10	97	93	15	12	12	6	6	5	22	12	72	45	267	207
April	2	3	14	9	6	8	16	10	109	102	3	2	20	6	6	7	12	13	53	36	241	196
May	5	8	9	10	9	9	22	19	79	63	10	12	17	18	2	2	35	25	50	37	238	203
June	8	7	13	9	5	5	19	16	99	70	8	8	12	7	......	3	23	17	62	42	249	184
TOTALS	103	91	134	119	87	78	278	221	1,318	1,111	116	96	183	137	46	48	208	157	743	594	3,216	2,652
GAIN AUMENTO	12	......	15	......	9	......	57	......	207	......	20	......	46	......	......	2	51	......	149	......	564	......

HYDROELECTRIC SYSTEM

TABLE No. 4

CLASSIFICATION OF ENERGY DELIVERED

(KILOWATT-HOURS)

SISTEMA HIDROELECTRICO

TABLA No. 4

DISTRIBUCION DE LA ENERGIA ENTREGADA

(KILOVATIOS—HORA)

Month	USE CLASSIFICATION										Total
	Domestic	Employees	Flat Rate Lighting	Commercial	Industrial	Primary Power	Public Lighting	Dependencies	Power Plant No. 3	Interconnection	
	CLASIFICACION DE CONSUMIDORES										
Mes	Residencial	Empleados	Alumbrado sin Contador	Comercial	Industrial	Fuerza Primaria	Alumbrado Público	Dependencias	Planta No. 3	Interconexión	Total
1943											
July	210, 677	6, 654	8	118, 543	72, 642	33, 900	19, 224	2, 374	14, 140	75, 360	553, 522
August	211, 148	6, 844	4	119, 761	80, 422	33, 300	20, 942	2, 757	4, 380	77, 570	557, 128
September	221, 230	6, 697	—	125, 083	96, 430	32, 600	22, 151	2, 640	1, 690	120, 000	628, 521
October	234, 109	7, 110	—	132, 271	100, 548	29, 900	26, 002	3, 097	5, 020	72, 000	610, 057
November	227, 509	7, 217	—	125, 571	113, 303	26, 500	25, 196	3, 212	6, 900	186, 590	719, 998
December	224, 879	7, 486	—	123, 378	85, 416	18, 500	26, 858	4, 830	4, 990	164, 760	661, 097
1944											
January	253, 082	7, 932	—	124, 463	89, 981	23, 600	28, 733	3, 838	5, 580	179, 400	716, 609
February	239, 697	7, 286	—	116, 885	96, 192	15, 800	28, 528	21, 944	2, 100	180, 600	709, 032
March	216, 205	6, 536	—	114, 478	92, 150	9, 080	25, 342	17, 444	4, 010	60, 000	545, 245
April	234, 625	6, 779	—	125, 673	84, 865	15, 220	26, 641	2, 509	710	....	497, 022
May	232, 165	6, 850	—	123, 388	87, 969	30, 100	24, 980	2, 164	3, 280	....	510, 896
June	227, 019	6, 723	—	128, 384	91, 636	40, 400	24, 908	2, 641	1, 100	79, 600	602, 411
Total	2, 732, 345	84, 114	12	1, 477, 878	1, 089, 554	308, 900	299, 505	69, 450	53, 900	1, 195, 880	7, 311, 538

HYDROELECTRIC SYSTEM

TABLE No. 5

CLASSIFICATION OF REVENUES

SISTEMA HIDROELECTRICO

TABLA No. 5

CLASIFICACION DE INGRESOS

Month	USE CLASSIFICATION									Total
	Domestic	Employees	Flat Rate Home Lighting	Commercial	Industrial	Primary Power	Public Lighting	Power Plant No. 3	Intercon-nection	
	CLASIFICACION DE CONSUMIDORES									
Mes	Residencial	Empleados	Alumbrado sin Contador	Comercial	Industrial	Fuerza Primaria	Alumbrado Público	Planta No. 3	Interco-nexión	Total
1943										
July	$10, 715. 41	$63. 60	$0. 60	$4, 519. 52	$2, 420. 08	$800. 00	$948. 60	$141. 40	$1, 063. 82	$20, 673. 03
August	10, 841. 92	65. 22	0. 30	4, 572. 27	2, 576. 31	815, 00	1, 035. 31	43. 80	1, 077. 74	21, 027. 87
September	11, 210. 73	64. 18	....	4, 694. 77	2, 806. 66	792. 50	1, 095. 42	16. 90	1, 345. 05	22, 026. 21
October	11, 635. 97	65. 80	....	4, 826. 03	2, 839. 55	807. 50	1, 272. 45	50. 20	1, 132. 65	22, 630. 15
November	11, 569. 06	67. 81	....	4, 760. 20	3, 098. 08	730. 00	1, 219. 63	69. 00	1, 680. 72	23, 194. 50
December	11, 504. 39	69. 17	....	4, 591. 77	2, 525. 51	700. 00	1, 322. 66	49. 90	1, 528. 94	22, 292. 34
1944										
January	12, 494. 85	73. 60	....	4, 626. 21	2, 622. 79	700. 00	1, 395. 88	55. 80	1, 573. 02	23, 542. 15
February	11, 912. 49	69. 07	....	4, 384. 07	2, 824. 76	700. 00	1, 336. 38	21. 00	1, 508. 73	22, 750. 50
March	11, 096. 30	61. 82	....	4, 296. 14	2, 726. 14	700. 00	1, 244. 10	40. 10	690. 20	20, 855. 56
April	11, 744. 38	65. 41	....	4, 610. 73	2, 692. 52	700. 00	1, 305. 26	7. 10	....	21, 125. 40
May	11, 651. 17	65. 96	....	4, 542. 34	2, 729. 27	732. 00	1, 227. 38	32. 80	....	20, 979. 92
June	11, 652. 69	64. 22	....	4, 912. 75	2, 737. 82	924. 00	1, 219. 85	11. 00	796. 00	22, 318. 33
Total	$138, 029. 36	$794. 86	$. 90	$55, 337. 56	$32, 599. 49	$9, 101. 00	$14, 622. 92	$539. 00	$12, 396. 87	$263, 421. 96

HYDROELECTRIC SYSTEM

TABLE NO. 6

AVERAGE RESIDENTIAL RATE CONSUMER IN THE ISABELA OPERATING DISTRICT

SISTEMA HIDROELECTRICO

TABLA NO. 6

CONSUMIDOR TIPICO CON TARIFA RESIDENCIAL EN EL DISTRITO HIDROELECTRICO DE ISABELA

Month	Energy Delivered (Kw. hrs.)		Number of Consumers		Average Consumption (Kw. hrs.)		Monthly Revenues		Average Monthly Bill	
Mes	Energía Entregada (Kv. hrs.)		Número de Consumidores		Promedio de Consumo (Kv. hrs.)		Ingresos Mensuales		Promedio de Ingreso Mensual Por Factura	
	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44
July	185,478	210,677	6,970	7,245	28.61	29.21	$10,021.91	$10,716.76	$1.44	$1.47
August	203,225	211,148	6,980	7,301	29.12	28.92	10,469.90	10,841.92	1.50	1.48
September	206,953	221,230	7,050	7,374	29.33	30.00	10,679.64	11,215.13	1.51	1.52
October	211,094	234,109	7,078	7,418	29.82	31.55	10,807.97	11,638.07	1.53	1.56
November	223,116	227,509	7,052	7,435	31.64	30.59	11,118.78	11,569.06	1.58	1.56
December	223,313	224,879	7,071	7,457	31.58	30.15	11,204.37	11,504.39	1.58	1.56
January	224,972	253,082	7,127	7,575	31.57	32.08	11,860.90	12,503.53	1.62	1.65
February	228,368	239,697	7,127	7,616	30.07	31.47	11,295.81	11,914.24	1.58	1.56
March	211,711	216,205	7,138	7,665	29.79	28.20	10,584.29	11,096.30	1.48	1.44
April	225,565	234,625	7,172	7,718	31.91	30.39	11,097,94	11,747.27	1.55	1.52
May	242,049	232,165	7,197	7,756	33.63	29.93	11,578.57	11,651.17	1.61	1.50
June	214,269	227,019	7,226	7,765	29.60	30.52	10,496.37	11,652.69	1.51	1.50
Total	2,603,603	2,732,345	85,193	90,325	30.58	30.13	$131,366.43	$138,050.53	$1.54	$1.53

HYDROELECTRIC SYSTEM

TABLE NO. 7

AVERAGE COMMERCIAL RATE CONSUMER IN THE ISABELA OPERATING DISTRICT

SISTEMA HIDROELECTRICO

TABLA NO. 7

CONSUMIDOR TIPICO CON TARIFA COMERCIAL EN EL DISTRITO HIDROELECTRICO DE ISABELA

Month	Energy Delivered (Kw. hrs.)		Number of Consumers		Average Consumption (Kw. hrs.)		Monthly Revenues		Average Monthly Bill	
Mes	Energía Entregada (Kv. hrs.)		Número de Consumidores		Promedio de Consumo (Kv. hrs.)		Ingresos Mensuales		Promedio de Ingreso Mensual Por Factura	
	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44	1942–43	1943–44
July	121, 251	118, 543	1, 253	1, 270	96.77	93.34	$4, 674.94	$4, 539.52	$3.73	$3.57
August	125, 305	119, 761	1, 213	1, 258	103.30	95.19	4, 739.38	4, 575.65	3.91	3.63
September	122, 965	125, 083	1, 262	1, 280	97.44	97.71	4, 742.13	4, 721.62	3.76	3.76
October	123, 749	132, 271	1, 243	1, 298	99.56	101.90	4, 682.04	4, 874.03	3.77	3.75
November	115, 636	125, 571	1, 298	1, 338	89.09	93.84	4, 895.60	4, 826.20	3.64	3.61
December	112, 233	123, 378	1, 202	1, 263	93.37	97.68	4, 330.60	4, 596.77	3.61	3.63
January	112, 528	124, 463	1, 218	1, 258	92.39	98.93	4, 364.29	4, 642.21	3.58	3.69
February	107, 214	116, 885	1, 225	1, 258	87.32	92.91	4, 262.16	4, 387.43	3.48	3.41
March	102, 557	114, 478	1, 212	1, 259	84.62	90.92	4, 069.00	4, 300.53	3.36	3.42
April	107, 664	125, 673	1, 215	1, 268	89.61	99.11	4, 247.58	4, 620.84	3.60	3.64
May	127, 545	123, 388	1, 237	1, 264	103.11	97.61	4, 674.80	4, 545.34	3.78	3.59
June	120, 302	128, 384	1, 295	1, 362	93.04	94.26	4, 626.66	5, 005.75	3.58	3.67
Total	1, 398, 949	1, 477, 878	14, 877	15, 376	94.07	96.11	$64, 012.16	$55, 635.89	$3.63	$3.62

HYDROELECTRIC SYSTEM

TABLE No. 8

AVERAGE POWER RATE CONSUMER IN THE ISABELA OPERATING DISTRICT

(TARIFF No. 5)
(SMALL AND MEDIUM SIZE INSTALLATIONS)

SISTEMA HIDROELECTRICO

TABLA No. 8

CONSUMIDOR TIPICO CON SERVICIO DE FUERZA EN EL DISTRITO HIDROELECTRICO DE ISABELA

(TARIFA No. 5)
(INSTALACIONES DE CAPACIDAD HASTA 100 C. DE F.)

Month	H. P.	Consumption		Revenues	
		Block	Average	Block	Average
Mes	C. de F.	Consumo		Producido	
		Total	Promedio	Total	Promedio
1943		Kilowatt-Hours Kilovatios-Hora			
July	939	69,235	70.53	$2,168.17	$2.31
August	935	76,785	82.12	2,327.77	2.48
September	891	91,988	103.12	2,534.40	2.84
October	935	95,997	102.62	2,565.93	2.73
November	833	108,158	129,83	3,233.80	3.85
December	988	81,946	82.94	2,354.51	2.38
1944					
January	987	86,000	87.13	2,439.71	2.47
February	952	91,357	95.96	2,617.52	2.76
March	1,030	85,316	82.83	2,467.53	2.39
April	1,031	76,692	74.38	2,408.20	2.34
May	1,006	80,947	80.46	2,474.34	2.46
June	1,039	84,285	81.12	2,482.21	2.38
Totals	11,566	1,028,706	88.94	$30,074.09	$2.60

HYDROELECTRIC SYSTEM

Table No. 9

AVERAGE EXCLUSIVE TRANSFORMER RATE CONSUMER IN THE ISABELA OPERATING DISTRICT

(Tariff No. 4)

SISTEMA HIDROELECTRICO

Tabla No. 9

CONSUMIDOR TIPICO CON TRANSFORMADOR EXCLUSIVO EN EL DISTRITO HIDROELECTRICO DE ISABELA

(Tarifa No. 4)

Month	KV-A	Consumption		Revenues	
		Block	Average	Block	Average
Mes	KV-A	Consumo		Producido	
		Total	Promedio	Total	Promedio
		Kilowatt-Hours Kilovatios-Hora			
1943					
July	29	3,407	117.48	$173.76	$5.99
August	29	3,637	125.41	167.59	5.78
September	29	4,442	153.17	194.91	6.72
October	29	4,551	156.93	198.27	6.83
November	29	3,145	108.44	176.08	6.07
December	29	3,470	119.65	171.00	5.90
1944					
January	29	3,981	137.24	183.08	6.31
February	29	4,835	166.55	209.58	7.23
March	29	6,834	235.51	258.61	8.92
April	29	8,173	281.82	284.32	9.80
May	29	7,022	242.13	254.93	8.79
June	29	7,361	253.82	255.82	8.81
Total	348	60,858	174.85	$2,527.74	$7.26

HYDROELECTRIC SYSTEM

Table No. 10

AVERAGE CONSUMER FOR ALL RATES IN THE ISABELA OPERATING DISTRICT

SISTEMA HIDROELECTRICO

Tabla No. 10

CONSUMIDOR TIPICO BAJO TODAS LAS TARIFAS EN EL DISTRITO HIDROELECTRICO DE ISABELA

Tariff No.	Bills Issued	Block		Average	
		Consumption	Revenues	Consumption	Revenues
Tarifa No.	No. de Facturas	Total		Promedio	
		Consumo	Producido	Consumo	Producido
		Kw.-Hrs.		Kw. Hrs.	
1—Residential—Residencial	90,325	2,732,345	$138,050.53	30.1	$1.53
2—Commercial—Comercial	15,376	1,477,878	55,835.89	96.1	3.63
3—Flat Rate Home Lighting Alumbrado Mínimo sin Contador	3	12	.90	4.0	.30
4—Exclusive Transformer—Servicio por transformador Exclusivo	84	60,858	2,527.74	724.5	30.09
5—Power (Small and medium size) Fuerza (Instalaciones de pequeña capacidad)	1,301	1,028,696	30,074.09	790.7	23.11
6—Public Lighting Alumbrado Público	156	299,505	14,710.47	1,919.9	94.29
7—Power (Primary)—Fuerza (Primaria)	24	308,900	9,101.00	13,704.7	379.21
Special (Employees) Especial (Empleados)	709	84,114	794.86	118.6	1.12
Interconnection—Interconexión	11	1,195,880	12,396.87	108,716.4	1,126.98
Special (Power Plant No. 3) Especial (Planta No. 3)	12	53,900	539.00	4,991.7	44.91
Dependencies—Dependencias	....	69,450	....	....	....
Total	108,002	7,311,538	$263,831.35	67.8	$2.44

HIDROELECTRIC SYSTEM
TABLE NO. 11
USERS CLASSIFICATION
TARIFF NO. 1
(RESIDENTIAL RATE)

SISTEMA HIDROELECTRICO
TABLA NO. 11
CLASIFICACION DE CONSUMIDORES
TARIFA NO. 1
(RESIDENCIAL)

Zone Zona	CLASSIFICATION—CLASIFICACION										Total
	0—10 Kw. Hrs.	11—20 Kw. Hrs.	21—30 Kw. Hrs.	31—40 Kw. Hrs.	41—50 Kw. Hrs.	51—70 Kw. Hrs.	71—100 Kw. Hrs.	101—150 Kw. Hrs.	151—200 Kw. Hrs.	Over (más de) 200	
Hatillo	135 49.67%	73 26.79%	24 8.81%	10 3.70%	4 1.48%	14 5.14%	7 2.57%	1 0.37%	1 0.37%	3 1.10%	272 100.00%
Camuy	194 54.55%	103 28.22%	25 6.85%	15 3.60%	9 2.16%	6 1.44%	3 0.72%	1 0.27%	1 0.27%	7 1.92%	364 100.00%
Quebradillas	135 41.67%	104 31.93%	32 9.82%	11 3.38%	9 2.76%	9 2.76%	15 4.61%	....	1 0.31%	9 2.76%	325 100.00%
Isabela	273 39.98%	219 31.54%	68 9.79%	33 4.75%	17 2.44%	35 5.04%	12 1.72%	9 1.30%	6 0.86%	18 2.58%	690 100.00%
Aguadilla	1,025 38.76%	901 34.67%	260 9.91%	96 3.66%	68 2.59%	78 2.97%	60 2.29%	22 0.84%	11 0.42%	102 3.89%	2,623 100.00%
Moca	119 57.23%	59 28.36%	9 4.33%	4 1.92%	7 3.36%	4 1.92%	4 1.92%	....	....	2 0.96%	208 100.00%
Aguada	192 47.37%	139 34.19%	31 7.63%	13 3.20%	4 0.98%	7 1.72%	8 1.96%	4 0.98%	2 0.49%	6 1.48%	406 100.00%
Rincón	69 42.41%	49 30.04%	18 11.03%	10 6.13%	5 3.07%	7 4.27%	4 2.44%	....	1 0.61%	....	163 100.00%
Añasco	272 54.89%	143 27.73%	32 4.19%	21 4.07%	6 1.16%	17 3.30%	10 1.94%	10 1.94%	2 0.39%	2 0.39%	515 100.00%
Rural Zone Zona Rural	1,007 46.07%	765 34.96%	189 8.63%	77 3.52%	31 1.42%	43 1.97%	31 1.42%	13 0.59%	8 0.37%	24 1.10%	2,188 100.00%
TOTALS TOTALES	3,421 44.54%	2,555 32.70%	688 8.81%	290 3.71%	160 2.05%	220 2.82%	154 1.97%	60 0.77%	33 0.42%	173 2.21%	7,754 100.00%

NOTE:– This classification has been worked out from abstract of bills for the month of May, 1944.
NOTA:– Esta clasificación fué preparada con números del resumen de facturas para el mes de Mayo, 1944.

HYDROELECTRIC SYSTEM
TABLE NO. 12
USERS CLASIFICATION
TARIFF NO. 2
(COMMERCIAL RATE)

SISTEMA HIDROELECTRICO
TABLA NO. 12
CLASIFICACION DE CONSUMIDORES
TARIFA NO. 2
(TARIFA COMERCIAL)

Zone Zona	CLASSIFICATION—CLASIFICACION										Total
	0—10 Kw. Hrs.	11—21 Kw. Hrs.	21—30 Kw. Hrs.	31—40 Kw. Hrs.	41—50 Kw. Hrs.	51—70 Kw. Hrs.	71—100 Kw. Hrs.	101—150 Kw. Hrs.	150—200 Kw. Hrs.	Over (más de) 200	
Hatillo	16 41.06%	5 12.82%	1 2.56%	1 2.56%	1 2.56%	3 7.68%	3 7.68%	4 10.28%	3 7.68%	2 5.12%	39 100.00%
Camuy	21 42.88%	8 16.32%	1 2.04%	2 4.08%	....	1 2.04%	7 14.28%	1 2.04%	1 2.04%	7 14.28%	49 100.00%
Quebradillas	25 31.72%	9 12.24%	7 12.52%	4 5.44%	4 5.44%	4 5.44%	6 8.16%	2 2.72%	3 4.08%	9 12.24%	73 100.00%
Isabela	55 45.41%	21 17.35%	4 3.30%	6 5.02%	3 2.49%	9 7.43%	7 5.78%	4 3.30%	3 2.49%	8 7.43%	121 100.00%
Aguadilla	136 34.09%	58 14.45%	30 7.47%	18 4.48%	10 2.49%	22 5.48%	27 6.63%	16 3.99%	18 4.48%	66 16.44%	401 100.00%
Moca	7 24.99%	6 21.46%	1 3.57%	1 3.57%	3 10.71%	4 14.28%	1 3.57%	....	1 3.57%	4 14.28%	28 100.00%
Aguada	25 39.96%	10 15.80%	4 6.32%	2 3.16%	2 3.16%	3 4.74%	5 7.90%	5 7.90%	1 1.58%	6 9.48%	63 100.00%
Rincón	8 29.64%	4 14.82%	1 3.70%	1 3.70%	....	4 14.82%	2 7.40%	1 3.70%	2 7.40%	4 14.82%	27 100.00%
Añasco	28 37.49%	12 15.96%	8 10.64%	4 5.32%	1 1.33%	5 6.65%	5 6.65%	1 1.33%	4 5.32%	7 9.31%	75 100.00%
Rural Zone Zona Rural	147 38.21%	69 17.92%	27 7.01%	17 4.41%	23 5.97%	31 8.05%	37 9.61%	20 5.18%	3 .78%	11 2.86%	385 100.00%
TOTALS TOTALES	468 37.17%	202 16.02%	83 6.58%	56 4.44%	47 3.68%	86 6.82%	100 7.93%	55 4.36%	39 3.09%	125 9.91%	1,261 100.00%

NOTE:– This classification has been worked out from abstract of bills for the month of May, 1944.
NOTA:– Esta clasificación fué preparada con números del resumen de facturas para el mes de Mayo, 1944.

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO.

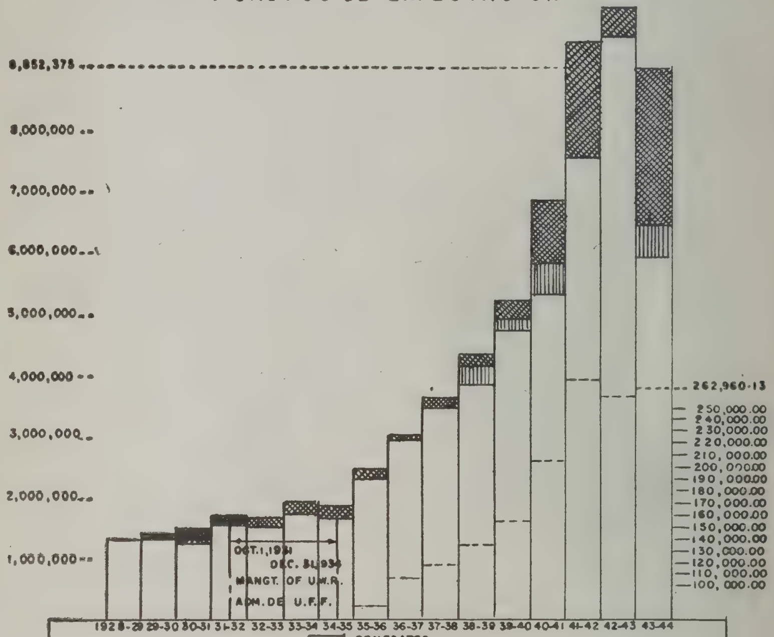
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO.

HYDRO-ELECTRIC SYSTEM

SISTEMA HIDROELECTRICO

POWER GENERATED AND PURCHASED, REVENUES, OPERATION AND MAINTENANCE EXPENSES

ENERGIA GENERADA Y COMPRADA, INGRESOS, Y GASTOS DE EXPLOTACION



——— ANNUAL PRODUCT K.W. HRS.
PRODUCCION ANUAL

- - - - REVENUES
INGRESOS

— — OPER. AND MAINT. EXPENSES
GASTOS DE EXPLOTACION

☐ GENERATED
GENERADA

■ PURCHASED FROM MAYAGUEZ LIGHT, POWER & ICE CO.
COMPRADA A MAYAGUEZ LIGHT, POWER & ICE CO.

▨ PURCHASED FROM AGUADILLA MUNICIPAL PLANT
COMPRADA A AGUADILLA MUNICIPAL PLANT

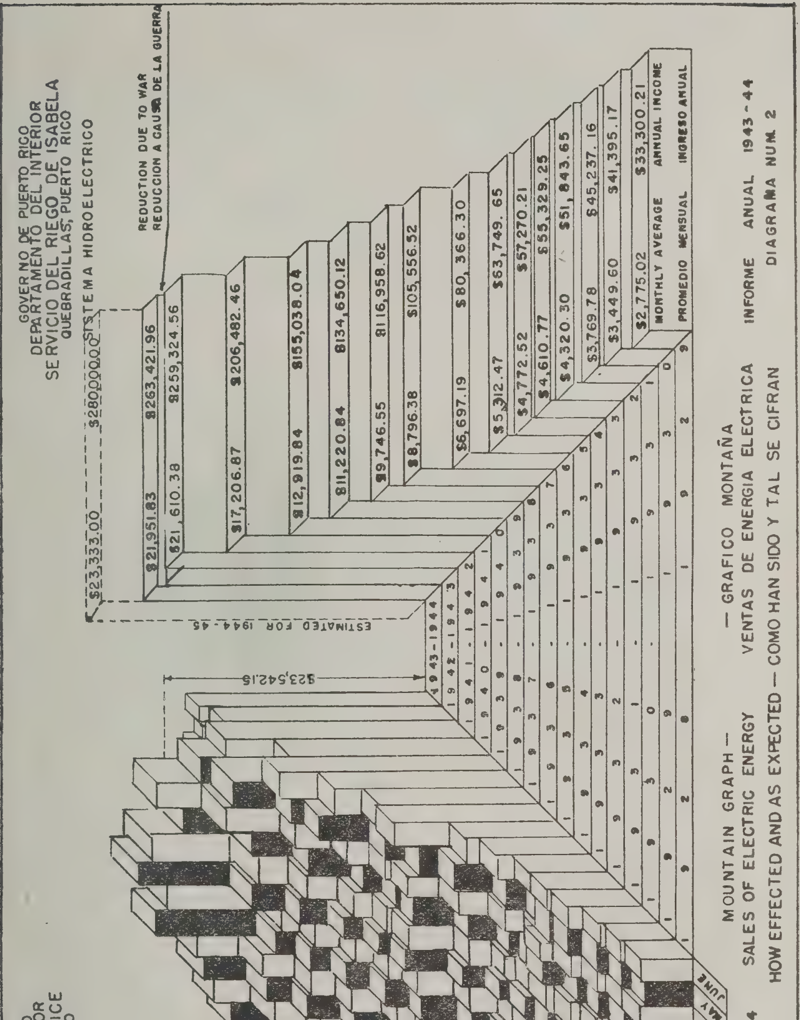
▩ PURCHASED FROM UTILIZATION OF THE WATER RESOURSE
COMPRADA A UTILIZACION DE LAS FUENTES FLUVIALES

▥ PURCHASED FROM CENTRAL COLOSO
COMPRADA A CENTRAL COLOSO

YEARS	ANNUAL PRODUCTION			REVENUES	OPER. & MAINT. EXPENSES
	GENERATED	PURCHASED	TOTALS		
1928-29	1,222,590	———	1,222,590	38,426.40	19,769.10
1929-30	1,359,070	22,300 ■	1,381,370	45,517.23	21,774.62
1930-31	1,332,290	58,100 ■ 20,180 ▩	1,410,570	46,662.79	19,415.24
1931-32	1,638,570	26,342 ■	1,664,912	52,582.35	18,965.39
1932-33	1,567,600	74,900 ▩	1,642,500	55,807.35	31,508.71
1933-34	1,758,300	121,850 ▩	1,880,150	57,788.11	20,269.37
1934-35	1,691,900	149,900 ▩	1,841,800	63,579.03	19,331.80
1935-36	2,335,500	53,750 ▩	2,389,250	80,751.68	22,386.05
1936-37	2,926,960	43,500 ▩	2,970,460	107,325.12	39,094.45
1937-38	3,197,340	74,950 ▩	3,272,290	117,166.27	51,587.98
1938-39	3,779,600	83,438 ▩ 344,600 ▥	4,207,638	134,650.12	48,856.37
1939-40	4,930,630	149,872 ▩ 99,800 ▥	5,180,302	155,038.04	51,255.06
1940-41	5,306,240	979,430 ▩ 481,170 ▥	6,766,840	206,482.46	67,590.32
1941-42	7,749,920	1,827,753 ▩	9,577,673	269,276.08	78,150.10
1942-43	9,692,720	200,474 ▩	9,893,194	259,257.07	61,316.71
1943-44	5,794,013	443,850 ▩ 2,614,495 ▥	8,852,375	262,960.13	90,140.15

ANNUAL REPORT 1943-44
DIAGRAM NO. 1

INFORME ANUAL 1943-44
DIAGRAMA NUM. 1



MOUNTAIN GRAPH — — GRAFICO MONTAÑA

SALES OF ELECTRIC ENERGY VENTAS DE ENERGIA ELECTRICA

HOW EFFECTED AND AS EXPECTED — COMO HAN SIDO Y TAL SE CIFRAN

ANNUAL REPORT 1943-44 INFORME ANUAL 1943-44

DIAGRAM NO 2 DIAGRAMA NUM. 2

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO

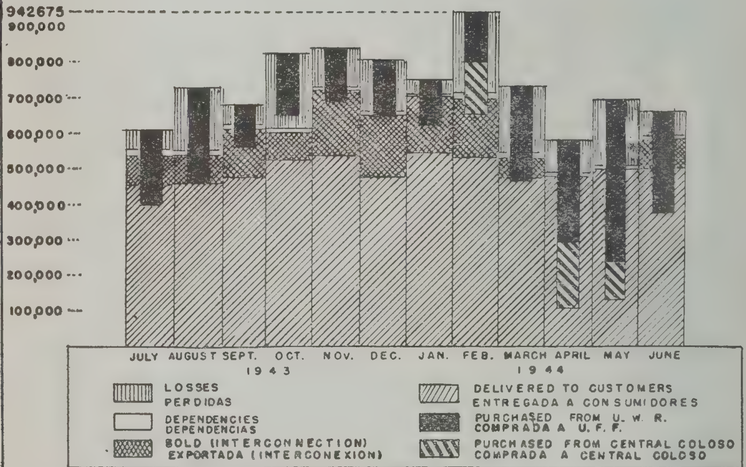
HYDRO-ELECTRIC SYSTEM

GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO

SISTEMA HIDROELECTRICO

DISTRIBUTION OF POWER GENERATED AND PURCHASED

DISTRIBUCION DE ENERGIA GENERADA E IMPORTADA



MONTH MES	GENERATED & PURCHASED GENERADA Y COMPRADA	PURCHASED (INTERCONN.) COMPRADA INTERCONEXION	GENERATED GENERADA	LOSSES PERDIDAS	DELIVERED / ENTREGADA		SOLD (INTERCONN.) EXPORTADA INTERCONEXION
					DEPENDENCIES DEPENDENCIAS	CONSUMERS CONSUMIDORES	
JULY	606195	213145	393050	51308	16514	461648	75360
AUGUST	735530	271000	464530	175113	7137	472421	77570
SEPT.	682030	120810	561220	52182	4330	504191	120000
OCT.	827305	167975	659330	214630	8117	529940	72000
NOV.	835815	146035	689780	112579	10112	523296	186590
DEC.	805475	154165	651310	141605	9820	486517	164760
JAN.	747480	131260	616220	27357	9418	527791	179400
FEB.	942675	141855 148320	652500	230213	24044	504388	180600
MAR.	729190	268740	460450	182903	21454	463791	60000
APRIL	579135	366225 107480	105430	81151	3219	493803	—
MAY	694980	441470 107750	145760	183123	5444	505452	—
JUNE	666565	272115	394450	63239	3741	519070	79600
TOTALS	8852375	2614495 443850	5794030	1515401	123350	5992308	1195880

ANNUAL REPORT 1943-'44 · INFORME ANUAL 1943-44
DIAGRAM NO. 3 DIAGRAMA NUM. 3

"SOLD TO "POINT BORINQUEN"

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE

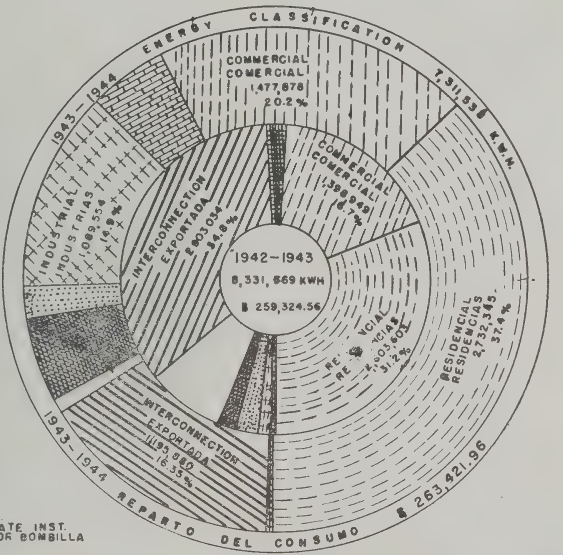
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA

HYDRO-ELECTRIC SYSTEM

SISTEMA HIDROELECTRICO

USE CLASSIFICATION FOR ENERGY DELIVERED AND REVENUES

REPARTO DEL CONSUMO DE ENERGIA Y PRODUCIDO SEGUN LA CLASE DE USUARIO



▤ FLAT RATE INST.
INST. POR BOMBILLA

▩ PRIMARIA
FUERZA PRIMARIA

☐ SPECIAL–EMPLOYEES
ESPECIAL–EMPLEADOS

▦ DEPENDENCIES
DEPENDENCIAS

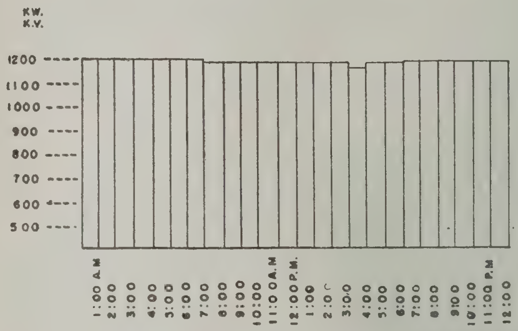
RATES TARIFAS	1942 — 1943		1943 — 1944		DIFFERENCE DIFERENCIA	
	KW-HRS	AMOUNT IMPORTE	KW-HRS	AMOUNT IMPORTE	KW-HRS	AMOUNT IMPORTE
RESIDENCIAL RESIDENCIAS	2,603,603	131,366.43	2,732,345	138,029.36	128,742	$ 6,662.93
COMMERCIAL COMERCIAL	1,398,949	54,012.16	1,477,878	55,337.56	78,929	1,325.40
FLAT RATE INST. INST. POR BOMBILLA	697	101.30	12	.90	- 685	- 100.40
INDUSTRIAL INDUSTRIAS	873,224	27,547.15	1,089,554	32,599.49	216,330	5052.34
STREET LIGHTING ALUMBRADO PUBLICO	209,014	10,246.27	299,505	14,622.92	90,491	4,376.65
PRIMARY POWER FUERZA PRIMARIA	153,100	6,301.50	308,900	9,101.00	155,800	2,799.50
SPECIAL (EMPLOYEES) ESPECIAL (EMPLEADOS)	68,665	741.91	84,114	794.86	15,449	52.95
INTERCONNECTION EXPORTADA	2,903,034	28,659.84	1,195,880	12,396.87	-1,707,154	- 16,262.97
DEPENDENCIES DEPENDENCIAS	121,283	348.00	123,350	539.00	2,067	191.00
TOTALS TOTALES	8,331,569	259,324.56	7,311,538	263,421.96	-1,020,031	4,097.40

ANNUAL REPORT 1943-44
DIAGRAM NO. 4

INFORME ANUAL 1943-44
DIAGRAMA NUM. 4

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
HYDRO-ELECTRIC SYSTEM

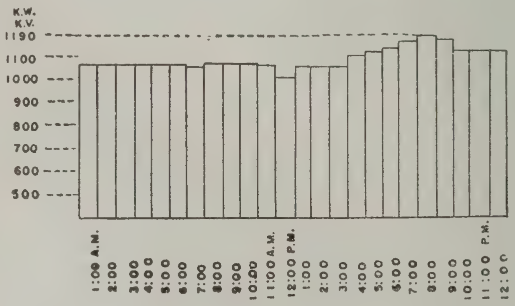
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA HIDROELECTRICO



LOAD CURVE-DAY OF MAXIMUM PRODUCTION
(SYSTEM INTERCONNECTED)

CURVA DE LA CARGA EL DIA DE MAXIMA PRODUCCION
(SISTEMA INTERCONECTADO)

SEPTEMBER 19, 1944 OUTPUT 27,840 K.W.H.
SEPTIENBRE 19, 1944 PRODUCCION 27,840 K.V.H.



TYPICAL DAILY LOAD CURVE
CURVA DE LA CARGA TIPICA DIARIA

OUTPUT - 25,560 K.W.H. PRODUCCION - 25,560 K.V.H.

ANNUAL REPORT 1943-44
DIAGRAM NO. 5

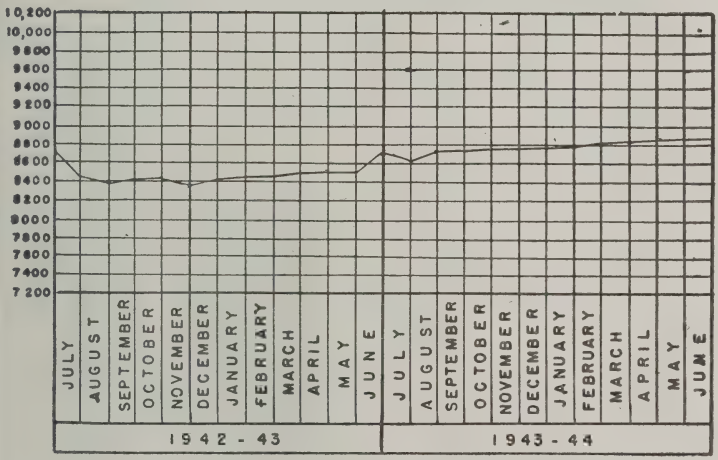
INFORME ANUAL 1943-44
DIAGRAMA NUM. 5

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
HYDRO-ELECTRIC SYSTEM

GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA HIDROELECTRICO

TREND OF POWER CONTRACTS

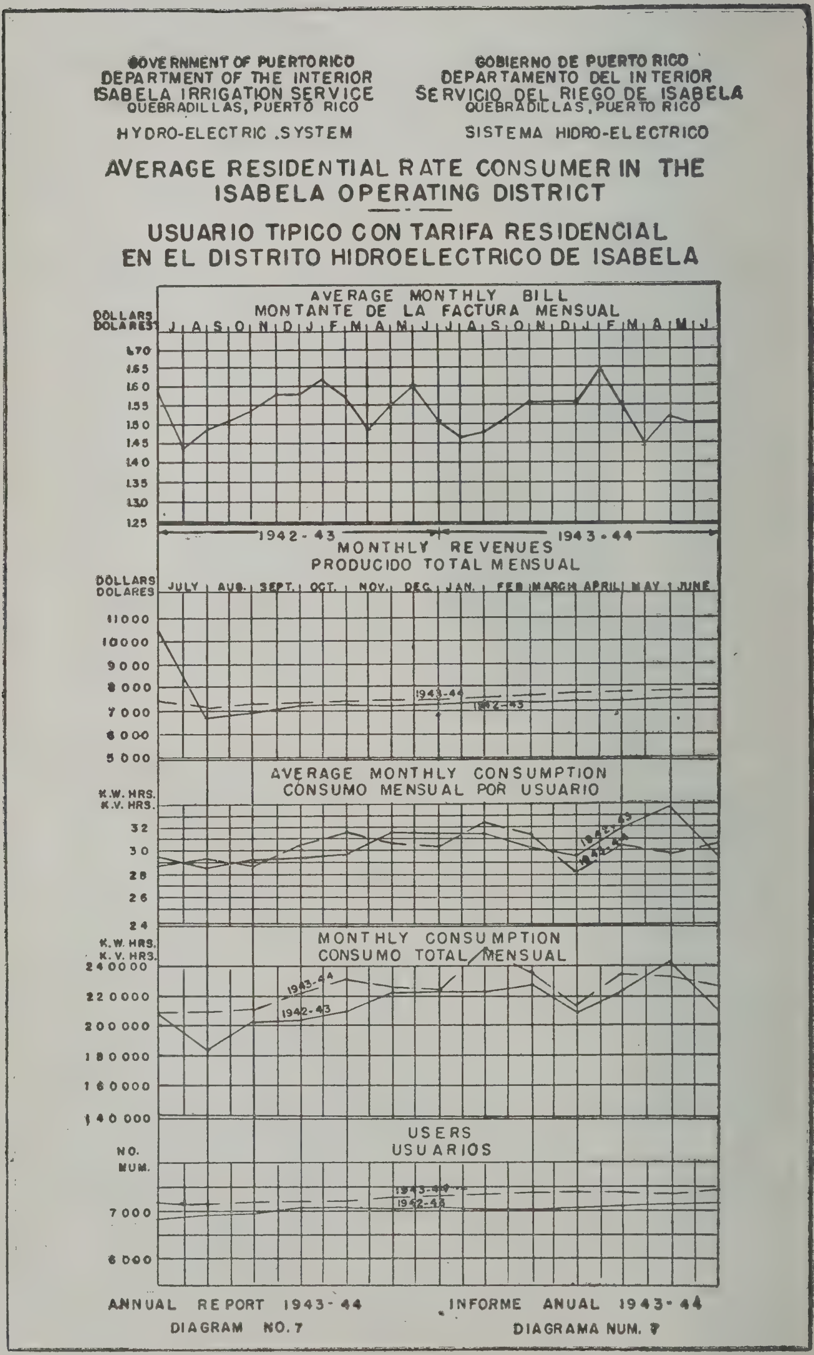
MOVIMIENTO DE CONTRATOS



FISCAL YEAR 1942-43 AÑO FISCAL 1942-43				FISCAL YEAR 1943-44 AÑO FISCAL 1943-44			
MONTH MES	PREVIOUS PREVIO	INCREASE OR DECREASE AUMENTO O DESCENSO	ACTUAL ACTUAL	MONTH MES	PREVIOUS PREVIO	INCREASE OR DECREASE AUMENTO O DESCENSO	ACTUAL ACTUAL
JULY	8733	-313	8420	JULY	8657	41	8616
AUGUST	8420	-60	8360	AUGUST	8616	75	8691
SEPT.	8360	44	8404	SEPT.	8691	47	8738
OCT.	8404	10	8414	OCT.	8738	68	8806
NOV.	8414	-31	8383	NOV.	8806	15	8821
DEC.	8383	18	8401	DEC.	8821	38	8859
JAN.	8401	40	8441	JAN.	8859	80	8939
FEB.	8441	7	8448	FEB	8939	77	9016
MARCH	8448	49	8497	MARCH	9016	60	9076
APRIL	8497	19	8516	APRIL	9076	45	9121
MAY	8516	43	8559	MAY	9121	35	9156
JUNE	8559	98	8657	JUNE	9156	65	9221
TOTALS	8733	-76	8657	TOTALS	8657	564	9221

ANNUAL REPORT 1943-44
DIAGRAM NO. 6

INFORME ANUAL 1943-44
DIAGRAMA NUM. 6


GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO
HYDRO-ELECTRIC SYSTEM
GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO
SISTEMA HIDRO-ELECTRICO
AVERAGE RESIDENTIAL RATE CONSUMER IN THE ISABELA OPERATING DISTRICT
USUARIO TIPICO CON TARIFA RESIDENCIAL EN EL DISTRITO HIDROELECTRICO DE ISABELA
AVERAGE MONTHLY BILL
MONTANTE DE LA FACTURA MENSUAL
DOLLARS
DOLARES
J A S O N D J F M A M J J A S O N D J F M A M J
1.70
1.65
1.60
1.55
1.50
1.45
1.40
1.35
1.30
1.25
1942-43
1943-44
MONTHLY REVENUES
PRODUCIDO TOTAL MENSUAL
DOLLARS
DOLARES
JULY
AUG.
SEPT.
OCT.
NOV.
DEC.
JAN.
FEB
MARCH
APRIL
MAY
JUNE
11000
10000
9000
8000
7000
6000
5000
1943-44
1942-43
AVERAGE MONTHLY CONSUMPTION
CONSUMO MENSUAL POR USUARIO
K.W. HRS.
K.V. HRS.
32
30
28
26
24
1942-43
1943-44
MONTHLY CONSUMPTION
CONSUMO TOTAL MENSUAL
K.W. HRS.
K.V. HRS.
240000
220000
200000
180000
160000
140000
1943-44
1942-43
USERS
USUARIOS
NO.
NUM.
7000
6000
1943-44
1942-43
ANNUAL REPORT 1943-44
DIAGRAM NO. 7
INFORME ANUAL 1943-44
DIAGRAMA NUM. 7

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
ISABELA IRRIGATION SERVICE
QUEBRADILLAS, PUERTO RICO

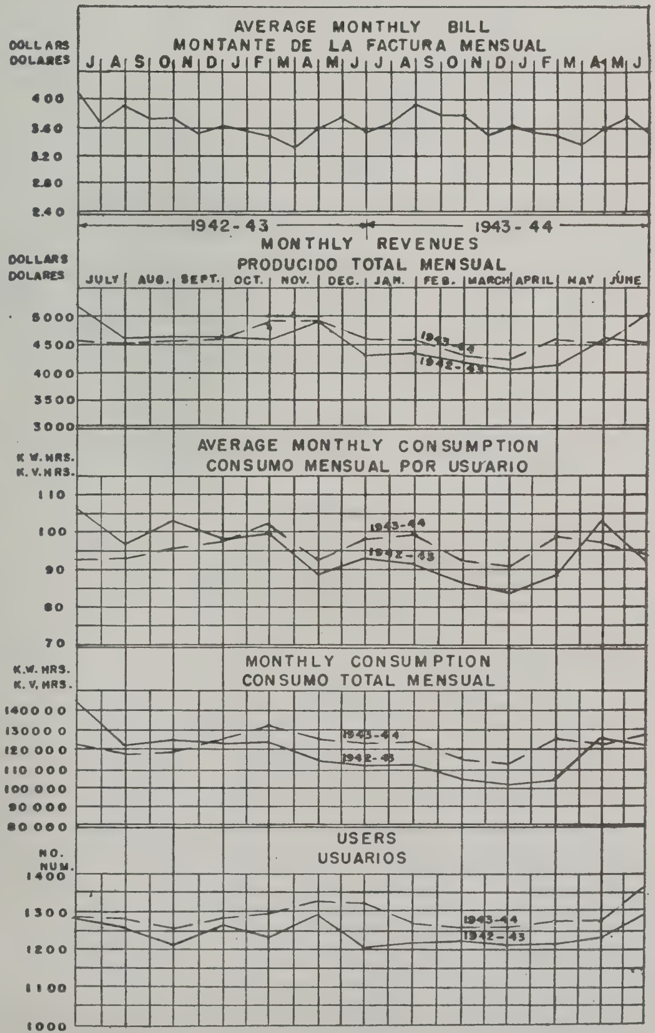
HYDRO-ELECTRIC SYSTEM

GOBIERNO DE PUERTO RICO
DEPARTAMENTO DEL INTERIOR
SERVICIO DEL RIEGO DE ISABELA
QUEBRADILLAS, PUERTO RICO

SISTEMA HIDROELECTRICO

AVERAGE COMMERCIAL RATE CONSUMER IN THE ISABELA OPERATING DISTRICT

USUARIO TIPICO CON TARIFA COMERCIAL EN EL DISTRITO HIDROELECTRICO DE ISABELA



ANNUAL REPORT 1943-44
DIAGRAM NO. 8

INFORME ANUAL 1943-44
DIAGRAMA NUM. 8

TABLAS Y ANEXOS DE CONTABILIDAD

DE LA

DIVISION DE PROPIEDAD Y CUENTAS

TABLES AND ACCOUNTING EXIBITS

OF THE

DIVISION OF PROPERTY AND ACCOUNTS

DIVISION OF PROPERTY AND ACCOUNTS

TABLE "A"

CLASSIFICATION OF BILLS ISSUED

DIVISION DE PROPIEDAD Y CUENTAS

TABLA "A"

CLASIFICACION DE FACTURAS EXPEDIDAS

Month	No. of Bills	Elctric Energy (Gross Value)	Irrigation Water (Law No. 178, approved 5/14/41)	Water for Domestic and Industrial Purposes	Equipment, Materials, and Supplies	Consumers' Contributions for Line Constructions, etc.	Rentals	Sundry	Total
Mes	Núm. de Facturas	Energía Eléctrica (Valor Total Facturado)	Agua para Riego (Ley No. 178, aprobada 5/14/41)	Agua para fines Domésticos e Industriales	Equipo, Materiales y Efectos	Aportado por Consumidores para Construccion de Líneas, etc.	Rentas	Varios	Total
1943									
July	8, 747	$20, 673. 03	$147. 20	$1, 122. 10	$15. 40	$101. 00	$207. 42	$8. 45	$22, 274. 60
August	8, 786	21, 027. 87	79. 00	1, 130. 49	151. 20	200. 00	10. 00	88. 50	22, 687. 06
September	8, 882	22, 026. 21	439. 90	1, 176. 32	8, 390. 12	133. 00	10. 00	11, 954. 95	44, 130. 50
October	8, 935	22, 630. 15	220. 70	1, 127. 53	980. 36	233. 00	10. 00	4, 599. 66	29, 801. 40
November	8, 997	23, 194. 50	665. 80	1, 184. 34	133. 85	115. 00	10. 00	116. 58	25, 420. 07
December	8, 936	22, 292. 34	1, 024. 60	1, 175. 76	3, 285. 84	21. 00	538. 00	11, 625. 57	39, 963. 11
1944									
January	9, 085	23, 542. 15	802. 06	1, 168. 38	3, 209. 41	156. 00	10. 00	3, 689. 11	32, 577. 11
February	9, 095	22, 756. 50	326 18	1, 068. 71	1, 480. 17	109. 00	10. 00	5, 943. 23	31, 693. 79
March	9, 155	20, 165. 36	917. 25	1, 151. 57	2, 090. 37	190. 00	10. 00	5, 002. 87	29, 527. 42
April	9, 207	21, 815. 60	13. 13	1, 090. 82	3, 587. 32	238. 50	10. 00	7, 102. 77	33, 858. 14
May	9, 245	20, 979. 92	42. 45	1, 094. 59	5, 487. 64	13. 00	10. 00	8, 527. 81	36, 155. 41
June	9, 348	22, 318. 33	21. 88	1, 059. 93	13, 794. 99	173. 00	142. 00	24, 795. 82	62, 305. 45
	108, 418	$263, 421. 96	$4, 699. 65	$13, 550. 54	$42, 606. 67	$1, 682. 50	$997. 42	$83, 455. 32	$410, 394. 06
Less: Bills covering previous year's accounts Menos: Facturas cubriendo cuentas del año anterior	....	461. 83	....	....	....	....	264. 00	....	725. 83
Totals	108, 418	$262, 960. 13	$4, 699. 65	$13, 550. 54	$42, 606. 67	$1, 682. 50	$713. 42	$83, 455. 32	$409, 668. 23

DIVISION OF PROPERTY AND ACCOUNTS

TABLE "B"

CLASSIFICATION OF DISBURSEMENTS VOUCHERS FOR FISCAL YEAR ENDING JUNE 30, 1944

DIVISION DE PROPIEDAD Y CUENTAS

TABLA "B"

CLASIFICACION DE COMPROBANTES DE PAGO PARA EL AÑO FISCAL QUE TERMINO EN JUNIO 30, 1944

Month	Vouchers Issued	Salaries	Wages	Equipment, Materials, & Supplies	Transportation (All kinds)	Rents	Telephone and Telegraph	Sundry	Previous Years' Accounts	Amortization of Bonds & Loans, & Payment of Interest	Reimbursement of Customers' Cash Bond Deposits	Total
Mes	Comprobantes Expedidos	Sueldos	Jornales	Equipo, Materiales y Efectos	Transporte (Toda clase)	Alquileres y Arrendamientos	Teléfono y Telégrafo	Varios	Cuentas de Años Anteriores	Amortización de Bonos y Préstamos y Pago de Intereses	Reembolso de Fianzas de Consumidores	Total
1943												
July	26	$5,847.33	....	$2,217.12	....	....	....	$120.40	....	....	....	$8,184.85
August	48	5,896.29	$4,721.69	2,875.80	$209.76	$576.85	$64.47	614.27	$447.73	....	....	15,406.86
September	17	5,714.90	10,808.68	29.23	20.65	108.83	2.80	120.10	....	....	....	16,805.19
October	40	5,759.11	5,909.70	2,094.63	926,77	536.85	120.08	1,285.10	....	....	....	16,632.24
November	37	5,611.90	11,457.59	1,001.74	752.93	402.63	65.04	1,770.44	....	....	....	21,062.27
December	31	5,577.84	3,814.05	685.92	618.31	410.44	30.96	4,950.97	....	$355,531.25	....	371,619.74
1944												
January	37	5,596.14	9,466.72	2,591.41	1,935.05	363.25	35.14	215.46	4,820.08	....	$609.91	25,633.16
February	27	5,516.38	7,200.84	6,423.98	6.00	354.43	79.75	385.62	....	....	....	19,967.00
March	25	5,485.90	9,239.86	1,036.12	321.31	294.43	29.00	1,164.08	....	....	15.00	17,585.70
April	38	5,591.78	10,602.78	6,342.41	1,371.02	308.42	58.00	423.50	1,758.70	....	....	26,456.61
May	50	5,349.99	16,908.27	8,492.42	1,031.09	460.43	32.34	102.90	....	....	20.00	32,397.44
June	61	5,338.40	10,466.03	7,108.44	1,700.20	400.44	173.55	482.37	....	(3)91,781.25	598.70	118,049.38
Totals	437	$67,285.96	$100,596.21	$40,899.22	$8.893.09	$4.217.00	$691.13	$11,635.21	$7,026.51	$447,312.50	$1,243.61	$689,800.44

PLUS Vouchers in Transit as of June 39, 1943 MAS Comprobantes en Curso en Junio 30, 1943	6,880.20
Total, as of June 30, 1944 Total, Junio 30, 1944	$696,680.64

NOTES

1) Under "Sundry" the following items are included:

Purchase of Electric Energy		$1,116.88
Purchase of Land		951.99
Postage		392.39
Indemnity of Damages		20.00
Legal Expenses		2,907.22
Insurance:		
Public Liability and Property Damages	$409.87	
Insurance of Employees and Laborers	4,888.92	
Premium on Bonds of Employees		
Auto Insurance	79.98	5,377.87
Reimbursements (Contra):		
Salaries	$105.08	
Miscellaneous	5.64	
Revenue Items	18.00	128.72
Miscellaneous		740.14
		$11,635.21

2) Under "Previous Years' Accounts" the following were paid

Utilization of Water Resources	$4,820.08
Sundry Creditors	2,206.43
	$7,026.51

3) In this case, $40,000.00 was covered by transfer warrant.

RECONCILIATION WITH EXHIBIT "A"

Total disbursed as above	$696,680.64
Less: Reimbursements of Customers' Cash Bond Deposits Special Fund	1,243.61
Total disbursed as per Exhibit "A"	$695,437.03

NOTAS

1) Bajo "Varios" se incluyen la siguientes partidas:

Compra de Energía Eléctrica		$1,116.88
Compra de Tierras		951.99
Franqueo		392.39
Indemnización por Daños		20.00
Gastos Legales		2,907.22
Seguros:		
Rresponsabilidad Pública sobre Líneas Eléctricas	$409 87	
Seguro de Empleados y Obreros	4,888.02	
Primas sobre Fianzas de Empleados		
Seguros de Automóviles	79.98	5,377.87
Reembolsos (Contra):		
Sueldos	$105.08	
Misceláneos	5.64	
Partidas de Ingresos	18.00	128.72
Misceláneas		740.14
		$11,635.21

2) Bajo "Cuentas de Años Anteriores" se pagaron las siguientes:

Utilización de las Fuentes Fluviales	$4,820.08
Varios Acreedores	2,206.43
	$7,026.51

3) En este caso, $40,000.00 fueron cubiertos por libramiento de transferencia.

RECONCILIACION CON ANEXO "A"

Total desembolsado como se indica arriba	$696,680.64
Menos Suma reembolsadas por Depósitos de Fianzas Fondo Especial	1,243.61
Total desembolsado según Anexo "A"	$695,437.03

DIVISION OF PROPERTY AND ACCOUNTS

TABLE "C"

ANNUAL BUDGET
COMPARISON OF ACTUAL EXPENDITURES WITH AUTHORIZED ALLOTMENTS

DIVISION DE PROPIEDAD Y CUENTAS

TABLA "C"

PRESUPUESTO ANUAL
GASTOS EFECTIVOS COMPARADOS CON ASIGNACIONES

Items	Operation and Maintenance			Amortization of Debts and Payment of Interest	Improvements and Extensions			Purchase of Machinery and Equipment	Contingencies	Totals
	Irrigation System	Hydroelectric System	General Administration		Irrigation System	Hydroelectric System	General			
Partidas	Operación y Conservación			Amortización de Deudas y Pago de Intereses	Mejoras y Extensiones			Compra de Maquinaria y Equipo	Imprevistos	Totales
	Sistema de Riego	Sistema Hidroeléctrico	Administración General		Sistema de Riego	Sistema Hidroeléctrico	General			
Authorized Allotments...... [Asignaciones Autorizadas]	$32,045.00	$62,694.50	$48,185.00	$452,162.50	$31,000.00	$22,792.50	$700.00	$300.00	$5,222.72	$655,102.22
Total Expenditures......... [Total de Gastos]	27,153.38	77,689.93	39,607.28	452,132.58	30,532.46	16,824.27	40.47	211.55	4,454.22	648,646.14
Balances available Jul. 1, 1944 [Balances Disponibles julio 1, 1944]	4,891.62	—14,995.43	8,577.72	29.92	467.54	5,968.23	659.53	88.45	768.50	6,456.08
Plus: Adjustments [1]...... [Más: Ajustes] [1]	....	25,288.91	....	....	....	....	....	....	....	25,288.91
Adjusted Balances.......... [Balances Ajustados]	$4,891.62	$10,293.48	$8,577.72	$29.92	$467.54	$5,968.23	$659.53	$88.45	$768.50	$31,744.99

---

(1) Value of electric energy imported from interconnected system due to intensive drought during year. There was no credit authorized in budget to defray the sum in this case.

(1) Valor de energía eléctrica importada del sistema interconectado debido a la sequía intensa sufrida durante el año. No había crédito autorizado en el presupuesto para pagar la suma en este caso..

IEDAD Y CUENTAS
“D”
ECTIVO POR TODOS CONCEPTOS

Month Mes	MENT		Totals Totales
	Reimbursements Reembolsos	Cash in Transit Efectivo en Tránsito	
1943			
July	....	$2.10	$30,155.98
August	$6,254.02	—2.10	27,712.81
September	....	406.62	26,958.17
October	17,551.51	....	38,609.10
November	35.00	....	25,002.53
December	....	—406.62	121,041.62
1944			
January	70.08	....	27,346.16
February	....	137.20	32,208.01
March	....	—129.00	37,554.67
April	....	—3.00	29,584.25
May	....	7.10	24,674.04
June	8,995.25	—15.00	280,050.87
TOTALS	$32,905.86	$—2.70	$700,898.21

..	$319,981.89
..	380,916.32
..	$700,898.21

A”

....		$700,898.21
Especial		1,554.00
		$699,344.21
...	$20,000.00	
...	8,995.25	
antes sin		11,004.75
....		$710,348.96

DIVISION OF PROPERTY AND ACCOUNTS
TABLE "D"
SHOWING CASH RECEIPTS FROM ALL SOURCES

DIVISION DE PROPIEDAD Y CUENTAS
TABLA "D"
MOSTRANDO INGRESOS EN EFECTIVO POR TODOS CONCEPTOS

Month	COLLECTIONS MADE BY RECEIVING OFFICER							COLLECTIONS MADE BY TREASURY DEPARTMENT							Totals
	Power Bills		Irrigation Water (Act 178 of 1941)	Water for Waterworks Domestic and Industrial Purposes	Sundry	Reimbursements	Customers Cash Bond Deposits	Tax Levies		Surcharges	Readjusted Tax Levies (Act 146 of 1937)	1/10% Special Tax (Act 120 of 1939)	Reimbursements	Cash in Transit	
	Current Year	Previous Years						Current Year	Previous Years						
Mes	COBROS EFECTUADOS POR EL OFICIAL RECEPTOR							COBROS EFECTUADOS POR TESORERÍA							Totales
	Facturas Corriente Eléctrica		Agua para Riego (Ley 178 de 1941)	Agua para Acueductos y fines Domésticos e Industriales	Misceláneos	Reembolsos	Depósitos de Fianzas	Cuotas de Riego		Recargos	Contribuciones de Riego Reajustadas (Ley 146 de 1937	Contribución Especial de 1/10% (Ley 120 de 1939)	Reembolsos	Efectivo en Tránsito	
	Año Actual	Años Anteriores						Año Actual	Años Anteriores						
1943															
July	$81.47	$19,546.75	$147.20	$854.77	$324.01	$1,164.58	$192.00	$5,656.20	$2,081.95	$104.95	....	....	....	$2.10	$30,155.98
August	15,964.58	2,511.24	79.00	33.01	209.30	5.64	....	1,379.88	1,127.56	28.94	$121.74	....	$6,254.02	—2.10	27,712.81
September	18,388.61	2,235.09	439.90	38.56	269.70	2,806.94	396.00	852.25	268.06	18.26	838.18	....	....	406.62	26,958.17
October	17,740.47	204.40	220.70	17.39	365.12	663.61	36.00	1,721.51	67.00	21.39	....	....	17,551.51	....	38,609.10
November	21,294.79	286.92	660.65	1,138.48	253.95	....	104.00	845.97	316.66	66.11	....	....	35.00	....	25,002.53
December......	21,198.47	1,382.01	921.65	2,549.38	981.05	3,459.24	138.00	1,522.43	115.50	32.88	11.63	$89,136.00	....	—406.62	121,041.62
1944															
January	20,659.89	490.08	900.08	1,699.01	228.41	172.45	78.00	3,039.27	6.00	2.89	....	....	70.08	....	27,346.16
February	19,348.69	42.34	331.08	2,537.21	641.77	6,865.48	85.00	2,159.74	33.70	25.80	....	....	....	137.20	32,208.01
March	20,716.33	21.54	1,063.83	800.76	277.69	12,941 13	141.00	1,239.07	425.85	56.47	....	....	....	—129.00	37,554.67
April	21,960.34	122.14	9.00	42.29	102.00	6,947.30	210.00	178.34	11.44	4.40	....	....	....	—3.00	29,584.25
May	22,693.93	29.75	44.43	1,607.46	49.96	....	72.00	57.26	....	1.32	110.83	....	....	7.10	24,674.04
June	19,993.86	24.74	26.13	1,616.69	570.64	14,410.83	102.00	208.55	27.25	15.17	74.76	234,000.00	8,995.25	—15.00	280,050.87
TOTALS.....	$220,041 43	$26,897 00	$4,843 65	$12,935 01	$4,273 60	$49,437 20	$1,554 00	$18,860 47	$4,480 97	$378.58	$1,157.14	$323,136 00	$32,905 86	$—2.70	$700,898 21

SUMMARY

(1) Amount collected by Receiving Officer...........	$319,981.89
(2) Amount collected by Treasury Department.......	380,916.32
Total collections during Year	$700,898.21

RESUMEN

(1) Suma cobrada por el Oficial Receptor............	$319,981.89
(2) Suma cobrada por Tesorería Insular..............	380,916.32
Total cobranzas durante el año	$700,898.21

RECONCILIATION WITH EXHIBIT "A"

Total Receipts, as above		$700,898.21
Less: Customers Cash Bond Deposits, which correspond to a "Special Fund"		1,554.00
		$699,344.21
Plus: Amount directly credited to Special Disbursing Officer at closing his account:		
Original Fund....	$20,000.00	
Amount reimbursed in cash...	8,995.25	
Difference credited direct representing vouchers pending liquidation.		11,004.75
Total Cash Receipts as per Exhibit "A"		$710,348.96

RECONCILIACION CON EL ANEXO "A"

Total recibido, como se indica arriba		$700,898.21
Menos: Depósitos de Fianzas, que corresponden a un Fondo Especial		1,554.00
		$699,344.21
Mas: Importe acreditado directamente al Oficial Pagador Especial al cerrar su cuenta.		
Fondo Original..	$20,000.00	
Importe reembolsado en efectivo....	8,995.25	
Diferencia acreditada directamente, la cual representa comprobantes sin liquidar		11,004.75
Total Cobranzas Netas, según Anexo "A"		$710,348.96

Exhibit "A"

ISABELA IRRIGATION SERVICE

STATEMENT OF CASH RECEIPTS AND NET DISBURSEMENTS FOR FISCAL YEAR ENDING JUNE 30, 1944

RECEIPTS			
Irrigation Revenues:			
Irrigation Taxes Collected:			
Previous Years	$4,480.97		
Current Year	18,860.47	$23,341.44	
Adjustments, Act 146 of 1937		1,157.14	
Surcharges		378.58	
Sale of Irrigation Water (Act 178 of 1941)		4,843.65	
Sale of Water for Waterworks, Domestic and Industrial Purposes		12,935.01	
Sundry		95.00	
Total, Irrigation Revenues			$42,750.82
Hydroelectric Revenues:			
Power Bills (Previous Years)		$26,897.00	
Power Bills (Current Year)		219,877.96	
Sundry		1,776.50	
Total, Hydroelectric Revenues			248,551.46
General:			
Materials, Rents, Services, etc		$74,622.66	
1/10% Special Tax (Act 120 of 1939)		323,136.00	
Total, General			397,758.66
Total Cash Receipts from Operation			$689,060.94
Other Items:			
Cash in Transit		$159.30	
Reimbursements (Contra)		128.72	
Repayment—Special Disbursing Officer		20,000.00	
Repayment—Advance to Insular Procurement Office (Contra)		1,000.00	
Total, Other Items			21,288.02
Total Cash Receipts for Period			$710,348.96
Plus Cash Balance, July 1, 1943			223,411.75
Total, Net Cash Receipts			$933,760.71

EXHIBIT "A"

ISABELA IRRIGATION SERVICE

STATEMENT OF CASH RECEIPTS AND NET DISBURSEMENTS FOR FISCAL YEAR ENDING JUNE 30, 1944

DISBURSEMENTS			
CURRENT YEAR ACCOUNTS:			
Operation and Construction:			
Payment of Salaries		$67,285.96	
Payment of Labor		100,596.21	
Purchase of Materials thru Bureau:			
Amount paid to suppliers	$38,910.82		
Bureau Surcharges	247.30	39,158.12	
Emergency Purchase of Materials and Supplies		1,741.10	
Purchase of Electric Energy		1,116.88	
Transportation		5,052.62	
Per Diems and Traveling		3,840.47	
Telephone and Telegraph		691.13	
Postage		392.39	
Indemnity for Damages		20.00	
Insurance (General)		489.85	
Insurance of Employees and Laborers		4,888.02	
Insurance—Premium on Bonds of Employees			
Purchase of Land		951.99	
Rents		1,235.86	
Lease of Municipal Distribution System of Aguadilla		2,981.14	
Legal Expenses		2,907.22	
Sundry Expenses		740.14	
Reimbursement (Contra):			
Power Bills (Current Year)	$18.00		
Salaries	105.08		
Sundry Expenses	5.64	128.72	
Total, Operation and Construction			$234,217.82
Obligations:			
Amortization of Bonds		$300,000.00	
Amortization of Treasury Loan (Partial)		40,000.00	
Interest on Bonded Debt		107,312.50	
Total, Obligations			447,312.50
TOTAL, CURRENT YEAR ACCOUNTS			$681,530.32
PREVIOUS YEAR ACCOUNTS:			
Utilization of the Water Resources		$4,820.08	
Bureau of Supplies (Printing Service's Report for Fiscal Year 1941–42)		912.31	
Sundry Creditors		1,294.12	
TOTAL, PREVIOUS YEAR ACCOUNTS			7,026.51
TOTAL VOUCHERS ISSUED DURING YEAR			$688,556.83
VOUCHERS IN TRANSIT, JULY 1, 1943:			
Porto Rico Iron Works, Inc		$5,783.45	
Bureau of Supplies, Printing and Transportation		283.74	
Sundry Creditors		813.01	
Total, Vouchers in Transit, July 1, 1943			6,880.20
TOTAL AUTHORIZED FOR PAYMENT			$695,437.03
LESS: Vouchers in Transit on June 30, 1944			6,362.58
TOTAL VOUCHERS PAID DURING YEAR			$689,074.45
PLUS: Advance to Special Disbursing Officer	$20,000.00		
Advance to Insular Procurement Office:			
Reimbursed (Contra) $1,000.00			
Outstanding 5,940.00	6,940.00		26,940.00
TOTAL, NET CASH DISBURSEMENTS			$716,014.45
CASH BALANCE IN TREASURY FUND (July 1, 1944)			$217,746.26

Exhibit "B"

ISABELA IRRIGATION SERVICE

BALANCE SHEET, JUNE 30, 1944

ASSETS				
Fixed Assets:				
Investments:				
Irrigation System:				
Guajataca Reservoir		$1,789,974.52		
Diversion Canal		1,012,592.08		
Distribution System		717,999.46	$3,520,566.06	
Hydroelectric System:				
Power Plant No. 1		$133,761.54		
Power Plant No. 2		125,184.59		
Substations		24,882.29		
Transmission Lines		124,970.98		
Distribution Lines	$345,191.09			
Less:				
Property of Municipality of Aguadilla under ten-year lease	10,377.13	334,813.96	743,613.36	
General Administration:				
Main Headquarters		$54,102.74		
Telephone Lines		13,857.38		
Pulverizing Plant		1,554.65	69,514.77	
			$4,333,694.19	
Less: Reserve for Depreciation			352,228.06	
Total Fixed Assets				$3,981,466.13
General Equipment			$65,310.39	
Less: Reserve for Depreciation			21,039.10	44,271.29
Current Assets:				
Cash:				
Treasurer of Puerto Rico:				
General Fund		$217,746.26		
Special Funds		13,900.75		
Cash in Transit		-21.46		
Special Disbursing Officer		656.05	$232,281.60	
Inventories:				
Materials and Supplies			48,321.08	
Accounts Receivable:				
Tax Levies Receivable		$27,651.53		
General Accounts		118,393.94	146,045.47	
Total Current Assets				426,648.15
Deferred Assets:				
Deferred Tax Levies			$51,982.58	
Stream Gauging			1,579.99	
Construction Items			26,860.52	
Total Deferred Assets				80,423.09
Deferred Charges:				
Discount on Bonds			$1,758.00	
Prepaid Insurance			8,816.39	
5% Premium on Construction Bonds Retired			56,250.00	
Other Prepaid Expenses			905.53	
Total Deferred Charges				67,729.92
Total Assets				$4,600,538.58

Note:- Item indicated with hyphen (-) represents red figure.

EXHIBIT "B"

ISABELA IRRIGATION SERVICE

BALANCE SHEET, JUNE 30, 1944

LIABILITIES			
FIXED LIABILITIES:			
BOND INDEBTEDNESS:			
Operation Period:			
Series "A" to "SS" 1952–70	$750,000.00		
Series "S" to "T" 1970–71	150,000.00		
Series "T" to "U" 1971–72	100,000.00		
Series "U" to "V" 1972–73	150,000.00		
Series "V" 1973	100,000.00	$1,250,000.00	
Refunding Bonds:			
Series "A" 1935–1945–1974	$75,000.00		
Series "B" 1936–1946–1975	75,000.00		
Series "C" 1937–1976	75,000.00		
P. R. 2½% Isabela Irrigation Consolidation Bonds of 1938:			
Original Issue $2,625,000.00			
Less: Amortizations $1,125,000.00	1,500,000.00	1,725,000.00	$2,975,000.00
INSULAR TREASURY TEMPORARY LOANS			1,786,208.75
TOTAL FIXED LIABILITIES			$4,761,208.75
CURRENT LIABILITIES:			
Accounts Payable		$6,362.58	
Unpaid Labor		331.40	
Accrued Expenses		38,616.75	
Accrued Interest on Treasury Loan		6,275.43	
Customers' Cash Bond Deposits		2,873.30	
TOTAL CURRENT LIABILITIES			54,459.46
DEFERRED CREDITS:			
Premium on Bonds		$34,739.22	
TOTAL DEFERRED CREDITS			34,739.22
TOTAL LIABILITIES			$4,850,407.43
SURPLUS:			
Operating Surplus:			
General	–$1,976,106.64		
1/10% Special Tax (Act 120 of 1939)	1,413,268.41	–$562,838.23	
Donated Surplus:			
Federal Government Contributions	$152,969.38		
Insular Government Contributions	160,000.00	312,969.38	
TOTAL SURPLUS			–249,868.85
			$4,600,538.58

NOTE: Items indicated with hyphen (–) represent red figures.

Exhibit "C"

ISABELA IRRIGATION SERVICE

INCOME STATEMENT

July 1, 1943 to June 30, 1944

Irrigation System:		
Operating Revenue:		
Irrigation Revenue	$26,619.91	
Miscellaneous Irrigation Revenue	13,705.54	
Total, Operating Revenue	$40,325.45	
Total, Operating and Maintenance Expenses	25,177.08	
Operating Profit, Irrigation System		$15,148.37
Hydroelectric System:		
Operating Revenue:		
Hydroelectric Current Revenue	$262,960.13	
Miscellaneous Hydroelectric Revenue	1,923.50	
Total, Operating Revenue	$264,883.63	
Total, Operating and Maintenance Expenses	123,643.63	
Operating Profit Hydroelectric System		141,240.00
Gross Operating Profit		$156,388.37
Less: Total, General Operating and Maintenance Expenses		47,701.18
Net Operating Profit		$108,687.19
Non-Operating Credits:		
Rents	$317,42	
Sale of Scrap Material and Containers	73.00	
Profit on Sale of Materials and Supplies	165.00	
Interest on Accounts Receivable	2.81	
1/10% Special Tax (Act 120 of 1939)	323,136.00	
Total, Non-Operating Credits		323,694.23
Gross Income		$432,381.42
Income Deductions:		
Interest on Bonded Debt		117,682.93
Surplus for Year		$314,698.49
Surplus at Beginning of Year:		
General	-$877,330.05	
Adjustments for Previous Years	-206.67	
Adjusted Surplus for Previous Years		-877,536.72
Total, Operating Surplus		-$562,838.23
Donated Surplus:		
Federal Government Contributions	$152,969.38	
Insular Government Contributions	160,000.00	
Total Donated Surplus		312,969.38
Total Surplus		-$249,868.85

Note – Items indicated with hyphen (–) represent red figures.

EXHIBIT "D"

ISABELA IRRIGATION SERVICE

STATEMENT OF OPERATION AND MAINTENANCE

July 1, 1943 to June 30, 1944

IRRIGATION SYSTEM:		
OPERATING EXPENSES:		
Guajataca Reservoir	$1,457.21	
Diversion Canal	782.75	
Distribution System	12,322.68	$14,562.64
MAINTENANCE EXPENSES:		
Guajataca Reservoir	$472.48	
Diversion Canal	1,895.27	
Distribution System	8,246.69	10,614.44
TOTAL, OPERATION AND MAINTENANCE		$25,177.08
HYDROELECTRIC SYSTEM:		
OPERATING EXPENSES:		
Power Plant No. 1	$12,426.81	
Power Plant No. 2	10,731.49	
Substations	1,501.43	
Transmission Lines	8,034.33	
Distribution System:		
Distribution Lines:		
Primary Distribution Lines	3,576.98	
Secondary Distribution Lines	34,427.04	
Meter and Transformer Operation	2,888.88	
Lease of Municipal Distribution Systems	3,500.00	
Compensation to Municipalities	15,229.34	
Interconnections	435.88	
Purchase of Electric Energy	27,143.86	$119,896.04
MAINTENANCE EXPENSES:		
Power Plant No. 1	$123.99	
Power Plant No. 2	320.46	
Substations	190.68	
Transmission Lines	198.62	
Distribution Lines:		
Primary Distribution Lines	1,879.95	
Secondary Distribution Lines	1,033.89	3,747.59
TOTAL, OPERATION AND MAINTENANCE		$123,643.63
GENERAL ADMINISTRATION:		
OPERATING EXPENSES:		
Main Headquarters	$2,388.44	
Telephone Lines	755.62	
Garage	1,159.46	
General Warehouse	3,169.18	
Executive Division	9,029.30	
Accounting Division (Accounting, Property and Purchases, Commercial, Collection, etc.)	23,591.14	
General Expenses	6,572.01	$46,665.15
MAINTENANCE EXPENSES:		
Main Headquarters	$545.46	
Telephone Lines	490.57	1,036.03
TOTAL, OPERATION AND MAINTENANCE		$47,701.18
INTEREST:		
Interest on Bonded Debt		$117,682.93
GRAND TOTAL		$314,204.82

Exhibit "E"

ISABELA IRRIGATION SERVICE

STATEMENT SHOWING NET CHARGES MADE TO INVESTMENT ACCOUNTS DURING THE FISCAL YEAR 1943-44 WITH TOTALS TO DATE

Accounts	Totals July 1, 1943	Totals July 1, 1943 to June 30, 1944	Grand Totals June 30, 1944
INVESTMENTS:			
IRRIGATION SYSTEM:			
GUAJATACA RESERVOIR:			
Reservoir:			
RIGHT of Way and Damages:			
Salaries	$12,160.91		$12,160.91
Lands	91,755.44	$75.00	91,830.44
Damages	27,129.52	10.50	27,140.02
Hydrography	2,797.86		2,797.86
Test, Pits & Borings	3,930.21		3,930.21
Surveys	16,750.66		16,750.66
Geological Investigations—Professional Services	1,490.74		1,490.74
Miscellaneous Office Expenses	2.69		2.69
Automobile Expenses	11.66		11.66
Depreciation of Equipment (Expense)	108.73		108.73
Highways	24,898.98		24,898.98
Highways (Road Camuy to San Sebastián)	8,005.27		8,005.27
Fencing	164.48		164.48
Leveling	351.51		351.51
Force Account Construction	756.47	8.25	764.72
Administration	12,358.94		12,358.94
Miscellaneous Expenses	2,950.89		2,950.89
Preliminary Surveys and Investigations	306.62		306.62
Salaries	24.39		24.39
Malaria Prevention of Reservoir	118.96		118.96
Testing of Reservoir	296.90		296.90
Premium on Insurance of Employees and Laborers	6.69		6.69
Interest during Construction (Proportion)	49,275.71		49,275.71
Operation during Construction (Proportion)	1,231.21		1,231.21
Maintenance during Construction (Proportion)	420.00		420.00
TOTALS	$257,305.44	$93.75	$257,399.19
Dam:			
Materials and Supplies	$0.57		$0.57
M. & R. of Equipment	13,088.44		13,088.44
M. & R. of Gates & Structures	131.59		131.59
Test, Pits & Borings:			
Test Pits	1,726.97		1,726.97
Borings	13,296.43		13,296.43
Surveys	1,096.22		1,096.22
Contract Construction	314,124.20		314,124.20
Contract Construction (Extra Work)	12,269.95		12,269.95
Contract Construction (Material)	32,724.82		32,724.82
Inspection & Engineering (Contract)	22,489.47		22,489.47
Misc. Office Expenses	3,978.09		3,978.09
Consulting Services	1,870.29		1,870.29
M. & R. of Buildings	340.46		340.46
Automobile Expenses	1,593.13		1,593.13
Fencing	97.82		97.82
Corral Expenses	121.08		121.08
Depreciation of Equipment (Expense)	78,132.22		78,132.22
Depreciation of Buildings, etc. (Expense)	19,577.41		19,577.41
Salaries	5.00		5.00
Buildings, Permanent	772.28		772.28
Buildings, Temporary	25.00		25.00
Temporary Telephone Lines (Maint. and Repairs)	122.55		122.55
Office Engineering	4,623.44		4,623.44
Force Account Construction	636,269.56		636,269.56
Administration	69,858.39		69,858.39
Miscellaneous Expenses	13,450.31		13,450.31
Labor	12,852.11		12,852.11
Traveling Expenses	19.45		19.45
Superintendence and Engineering	15,364.91		15,364.91
Reconstructien and Repairs caused by Storm of Sept. 13, 1928	11.89		11.89
Premium on Insurance of Employees and Laborers	371.88		371.88

EXHIBIT "E"—Continued

ISABELA IRRIGATION SERVICE

STATEMENT SHOWING NET CHARGES MADE TO INVESTMENT ACCOUNTS DURING THE FISCAL YEAR 1943—44 WITH TOTALS TO DATE

Accounts	Totals July 1, 1943	Totals July 1, 1943 to June 30, 1944	Grand Totals June 30, 1944
Dam:—Continued			
Interest during Construction (Proportion)	$251,991.31	...	$251,991.31
Operation during Construction (Proportion)	7,598.03	...	7,598.03
Maintenance during Construction (Proportion)	2,580.06	...	2,580.06
TOTALS	$1,532,575.33	...	$1,532,575.33
DIVERSION CANAL:			
Right of Way and Damages:			
Salaries, etc	$3,030.41	...	$3,030.41
Damages	9,679.38	...	9,679.38
Lands	3,702.43	...	4,702.43
Real Estate other than Right of Way	20.50	...	20.50
Materials and Supplies	5,701.56	...	5,701.56
Transportation, Freight, etc	153.50	...	153.50
M. & R. of Equipment	7,623.83	...	7,623.83
Surveys	23,019.01	...	23,019.01
Contract Construction	225,417.08	...	225,417.08
Contract Construction (Extra Work)	11,618.19	...	11,618.19
Inspection & Engineering (Contract)	16,897.29	...	16,897.29
Misc. Office Expenses	783.56	...	783.56
M. & R. of Buildings	840.33	...	840.33
Automobile Expenses	2,624.91	...	2,624.91
Corral Expenses	2,277.62	...	2,277.62
Depreciation of Equipment (Expense)	14,862.80	...	14,862.80
Depreciation of Buildings, etc. (Expense)	8,307.95	...	8,307.95
Highways	16,234.81	...	16,234.81
Buildings, Temporary	45.90	...	45.90
Fencing	180.78	...	180.78
Office Engineering	8,918.19	...	8,918.19
Leveling	351.56	...	351.56
Force Account Construction	420,896.76	...	420,896.76
M. & R. of Roads	4.00	...	4.00
Administration	38,221.34	...	38,221.34
Rents	3,273.46	...	3,273.46
Miscellaneous Expenses	8,499.09	...	8,499.09
Preliminary Surveys and Investigations	306.63	...	306.63
Surveys—Utilization of Streams	382.13	...	382.13
Salaries	49.00	...	49.00
Labor	30,814.80	...	30,814.80
Traveling Expenses	801.65	...	801.65
Superintendence & Engineering	7,410.91	...	7,410.91
Construction of Reservoir for Streams	578.14	...	578.14
Canal and Tunnel Maintenance	13,819.76	...	13,819.76
Reconstruction and Repairs caused by Storm of Sept. 13, 1928	266.54	...	266.54
Premium on Insurance of Employees and Laborers	303.62	...	303.62
Reconstruction and Repairs caused by Storm of Sept. 26–27, 1932	0.50	...	0.50
Interest during Construction (Proportion)	118,121.19	...	118,121.19
Operation during Construction (Proportion)	5,083.39	...	5,083.39
Maintenance during Construction (Proportion)	1,467.58	...	1,467.58
Totals	$1,012,592.08	...	$1,012,592.08
DISTRIBUTION SYSTEM:			
Right of Way and Damages:			
Salaries	$8,029.73	...	$8,029.73
Damages	51,713.37	...	51,713.37
Lands	1,798.10	$83.32	1,881.42
Real Estate other than Right of Way	1,118.83	...	1,118.83
M. & R. of Equipment	5,184.58	...	5,184.58
Hydrography	8.25	...	8.25
Surveys	29,196.65	...	29,196.65
Surveys, Topography	23,513.25	...	23,513.25
Miscellaneous Office Expenses	1,338.18	...	1,338.18
M. & R. of Buildings	482.89	...	482.89
Automobile Expenses	1,676.53	...	1,676.53

EXHIBIT "E"—Continued

ISABELA IRRIGATION SERVICE

STATEMENT SHOWING NET CHARGES MADE TO INVESTMENT ACCOUNTS DURING THE FISCAL YEAR 1943-44 WITH TOTALS TO DATE

Accounts	Totals July 1, 1943	Totals July 1, 1943 to June 30, 1944	Grand Totals June 30, 1944
DISTRIBUTION SYSTEM:—Continued			
Corral Expenses	1,858.58		1,858.58
Depreciation of Equipment (Expense)	8,330.11		8,330.11
Depreciation of Buildings, etc	6,960.33		6,960.33
Highways	43.34		43.34
Fencing	1,093.54	$5.57	1,099.11
Buildings, Permanent	3,733.31		3,733.31
Buildings, Temporary	8.46		8.46
Office Engineering	16,872.62		16,872.62
Leveling	868.68		868.68
Force Account Construction	432,150.96	34.21	432,185.17
Administration	34,577.61		34,577.61
Rents	993.67		993.67
Miscellaneous Expenses	5,348.22		5,348.22
Preliminary Surveys and Investigation	306.62		306.62
Traveling Expenses	143.98		143.98
Superintendence and Engineering	16,120.82		16,120.82
Canal and Tunnel Maintenance	65.63		65.63
Reconstruction and Repairs caused by Storm of Sept. 13, 1928	1,083.96		1,083.96
Premium on Insurance of Employees and Laborer	2,748.60		2,748.60
Interest during Construction (Proportion)	38,422.53		38,422.53
Operation during Construction (Proportion)	3,727.55		3,727.55
Maint. during Construction (Proportion)	933.91		933.91
Irrigation Commission	17,355.01	67.96	17,422.97
Totals	$717,808.40	$191.06	$717,999.46
TOTALS, IRRIGATION SYSTEM	$3,520,281.25	$284.81	$3,520,566.06
HYDROELECTRIC SYSTEM:			
POWER PLANT NO. 1:			
Right of Way and Damages:			
Salaries	$238.95		$238.95
Studies for Power Plant No. 2	178.89		178.89
Studies for Power Plant No. 3	18.61		18.61
Real Estate other than Right of Way	350.00		350.00
M. & R. of Equipment	112.14		112.14
Surveys	528.13		528.13
Miscellaneous Office Expenses	120.20		120.20
M. & R. of Buildings	.94		.94
Automobile Expenses	143.58		143.58
Depreciation of Equipment (Expense)	655.35		655.35
Highways	6,084.28		6,084.28
Fencing	13.49	$4.06	17.55
Buildings, Permanent	9,360.48		9,360.48
Buildings, Temporary	134.78		134.78
Roads, Bridges, Culverts, etc	1,188.83		1,188.83
Office Engineering	1,839.23		1,839.23
Leveling	157.79		157.79
Force Account Construction	90,733.86		90,733.86
Administration	8,209.95		8,209.95
Rents	62.47		62.47
Miscellaneous Expenses	574.62		574.62
Labor	12.88		12.88
Preliminary Surveys and Investigations	137.64		137.64
Traveling Expenses	44.60		44.60
Superintendence & Engineering	153.19		153.19
Reconstruction and Repairs caused by Storm of Sept. 13, 1928	491.99		491.99
Premium on Insurance of Employees and Laborers	2.42		2.42
Interest during Construction (Proportion)	6,703.47		6,703.47
Operation during Construction (Proportion)	3,845.00		3,845.00
Maintenance during Construction (Proportion)	1,659.72		1.659.72
Totals	$133,757.48	$4.06	$133,761.54

EXHIBIT "E"—Continued

ISABELA IRRIGATION SERVICE

STATEMENT SHOWING NET CHARGES MADE TO INVESTMENT ACCOUNTS DURING THE FISCAL YEAR 1943-44 WITH TOTALS TO DATE

Accounts	Totals July 1, 1943	Totals July 1, 1943 to June 30, 1944	Grand Totals June 30, 1944
POWER PLANT NO. 2:			
Federal Donation:			
Materials and Supplies	$9,867.53	....	9,867.53
Highways	17,129.11	....	17,129.11
Building, Permanent	8,900.30	....	8,900.30
Miscellaneous Expenses	1,133.27	....	1,133.27
Labor	27,999.30	....	27,999.30
Superintendence & Engineering	6,019.67	....	6,019.67
Services' Fund:			
Right of Way & Damages:			
Salaries	153.13	....	153.13
Damages	50.00	....	50.00
Real Estate other than Right of Way	681.00	....	681.00
Equipment	34,416.31	....	34,416.31
Force Account Construction	18,834.97	....	18,834.97
Totals	$125,184.59	....	$125,184.59
SUBSTATIONS:			
Right of Way and Damages:			
Salaries	$23.55	....	$23.05
Real Estate other than Right of Way	396.00	....	396.05
M. & R. of Equipment	10.20	....	10.20
Surveys	61.54	....	61.54
Miscellaneous Office Expenses	13.54	....	13.54
M. & R. of Buildings	.09	....	.09
Automobile Expenses	31.75	....	31.75
Depreciation of Equipment (Expense)	116.26	....	116.26
Transportation, Freight, etc	8.00	....	8.00
Fencing	56.65	....	56.65
Buildings, Permanent	798.45	....	798.45
Office Engineering	161.12	....	161.12
Leveling	14.35	....	14.35
Force Account Construction	21,283.43	....	21,283.43
Administration	738.72	....	738.72
Rents	5.68	....	5.68
Miscellaneous Expenses	53.91	....	53.91
Preliminary Surveys and Investigations	12.52	....	12.52
Traveling Expenses	4.18	....	4.18
Superintendence & Engineering	14.37	....	14.37
Reconstruction and Repairs caused by Storm of Sept. 13, 1928	20.63	....	20.63
Premium on Insurance of Employees and Laborers	32.28	....	32.28
Interest during Construction (Proportion)	550.90	....	550.90
Operation during Construction (Proportion)	318.40	....	318.40
Maintenance during Construction (Proportion)	155.77	....	155.77
Totals	$24,882.29	....	$24,882.29
TRANSMISSION LINES:			
Right of Way and Damages:			
Salaries	$295.63	....	$295.63
Damages	630.33	....	630.33
M. & R. of Equipment	97.45	....	97.45
Surveys	1,735.26	....	1,735.26
Miscellaneous Office Expenses	110.00	....	110.00
M. & R. of Buildings	.82	....	.82
Suspense Account	33.46	....	33.46
Automobile Expenses	148.35	....	148.35
Corral Expenses	.19	....	.19
Depreciation of Equipment (Expense)	587.14	....	587.14
Office Engineering	1,539.22	....	1,539.22
Leveling	137.12	....	137.12
Force Account Construction	94,861.72	....	94,861.72
Administration	6,545.32	....	6,545.32
Rents	54.29	....	54.20
Miscellaneous Expenses	519.10	....	519.10
Preliminary Surveys and Investigations	338.06	....	338.06
Traveling Expenses	115.87	....	115.87

EXHIBIT "E"—Continued

ISABELA IRRIGATION SERVICE

STATEMENT SHOWING NET CHARGES MADE TO INVESTMENT ACCOUNTS DURING THE FISCAL YEAR 1943-44 WITH TOTALS TO DATE

Account	Totals July 1, 1943	Totals July 1, 1943 to June 30, 1944	Grand Totals June 30, 1944
TRANSMISSION LINES:—Continued			
Superintendence & Engineering	148.97	...	148.97
Reconstruction and Repairs caused by Storm of Sept. 13, 1928	1,266.69	...	1,266.69
Premium on Insurance of Employees and Laborers	32.17	...	32.17
Interest during Construction (Proportion)	5,056.78	...	5,056.78
Operation during Construction (Proportion)	2,921.70	...	2,921.70
Maintenance during Construction (Proportion)	361.26	...	361.26
Materials and Supplies	6,352.05	...	6,352.05
Salaries	1,082.03	...	1,082.03
Totals	$124,970.98	...	$124,970.98
DISTRIBUTION LINES:			
Right of Way and Damages:			
Salaries, etc	$101.80	...	$101.80
Damages	918.42	...	918.42
Materials and Supplies	637.94	...	637.94
Transportation, Freight, etc	554.29	...	554.29
M. & R. of Equipment	30.05	...	30.05
Surveys	2,786.02	...	2,786.02
Miscellaneous Office Expenses	49.28	...	49.28
Insurance	...	$33.43	33.43
M. & R. of Buildings	.25	...	.25
Suspense Account	197.41	...	197.41
Automobile Expenses	779.06	...	779.06
Depreciation of Equipment (Expense)	837.93	...	837.93
Office Engineering	474.53	...	474.53
Leveling	42.28	...	42.28
Force Account Construction	152,409.77	4,826.30	157,236.07
Real Estate other than Right of Way	150.00	...	150.00
Administration	2,754.59	...	2,754.59
Rents	16.73	...	16.73
Preliminary Surveys and Investigations	181.18	...	181.18
Miscellaneous Expenses	165.15	...	165.15
Traveling Expenses	832.89	...	832.89
Reconstruction and Repairs caused by Storm of Sept. 13, 1928	747.18	...	747.18
Premium on Insurance of Employees and Laborers	485.08	...	485.08
Purchase of Municipal Distribution System at:			
Hatillo	601.00	...	601.00
Camuy	4,358.98	...	4,358.98
Quebradillas	3,819.93	...	3,819.93
Añasco	7,085.55	...	7,085.55
Isabela	13,235.94	...	13,235.94
Moca	1,001.00	...	1,001.00
Aguadilla (Partial)	7,561.61	...	7,561.61
Rincón	1,002.00	...	1,002.00
Aguada	4,502.97	...	4,502.97
Improvements and Repairs of Urban Distribution System at:			
Hatillo	6,930.19	170.48	7,100.67
Camuy	8,993.26	99.62	9,092.88
Quebradillas	6,241.56	113.04	6,354.60
Añasco	9,557.66	56.84	9,614.50
Aguada	8,408.65	713.72	9,122.37
Rincón	3,933.89	19.38	3,953.27
Isabela	12,829.66	324.67	13,154.33
Aguadilla	50,071.95	663.95	50,735.90
Moca	4,336.94	258.80	4,595.74
Superintendence and Engineering	76.74	...	76.74
Electric Municipal Distribution System at Aguadilla under 10 year lease (June 20, 1936 to June 19, 1946)	10,377.13	...	10,377.13
Interest during Construction (Proportion)	1,648.76	...	1,648.76
Operation during Construction (Proportion)	266.52	...	266.52

EXHIBIT "E"—Continued

ISABELA IRRIGATION SERVICE

STATEMENT SHOWING NET CHARGES MADE TO INVESTMENT ACCOUNTS DURING THE FISCAL YEAR 1943–44 WITH TOTALS TO DATE

Accounts	Totals July 1, 1943	Totals July 1, 1943 to June 30, 1944	Grand Totals June 30, 1944
DISTRIBUTION LINES:—Continued			
Maintenance during Construction (Proportion)	466.21		466.21
Flat Rate Installations	5,450.93		5,450.93
Totals	$337,910.86	$7,280.23	$345,191.09
TOTALS, HYDROELECTRIC	$746,706.20	7,284.29	$753,990.49
GENERAL ADMINISTRATION:			
Main Headquarters	$53,738.80	$363.94	$54,102.74
Telephone Lines	13,804.79	52.59	13,857.38
Pulverizing Plant	1,554.65		1,554.65
TOTALS, GENERAL ADMINISTRATION	$69,098.24	$416.53	$69,514.77
	$4,336,085.69	$7,985.63	$4,344,071.32
Less: Contingent Liability (Lease of Electric Distribution System at Aguadilla)			10,377.13
TOTAL, INVESTMENT, JUNE 30, 1944			$4,333,694.19

DIVISION OF ACCOUNTS AND DISBURSEMENTS

This Division prepared and passed for payment during the fiscal year 1943–1944, 10,279 vouchers, which represented 385 main accounts, as follows:

Class	Vouchers	Amount
On account of contracts	223	$610,275.41
Office salaries and expenses for materials, supplies and services pertaining to work executed by administration	10,056	3,020,738.05
Cash payment		2,059,453.29
TOTAL	10,279	$5,690,466.75

Furthermore, vouchers from the Isabela Irrigation System in the amount of 414, aggregating the sum of $657,711.58 were sent to the Auditor's office through this Division, for payment.

The Special Disbursing Officer of this Department made during this fiscal year 1943–1944, 125,125 cash payments on 12,937 pay rolls, amounting to $2,059,453.29, on the accounts indicated below:

Maintenance and repair of public roads and bridges	$1,182,145.05
Road survey and construction	492,068.43
Construction and repair of public buildings	80,414.90
Construction of Capitol Building	28,981.39
Service of Parks and Recreation	149,029.31
Municipal projects and miscellaneous	126,814.21
Total	$2,059,453.29

RESUME

Disbursed by vouchers	$3,631,013.46
Disbursed by laborers pay rolls	2,059,453.29
Total	$5,690,466.75

The requisitions for material, machinery, office supplies and transportation issued on the Insular Procurement Office numbered 3,347 and the cost of articles paid to the Insular Procurement Office amounted to $358,051.44. Direct orders issued to individuals and private concerns numbered 41, and their cost amounted to $821.

STATEMENT OF UNEXPENDABLE PROPERTY

Value of Government property under the jurisdiction of the Department at the close of business on June 30th, 1943, amounted to	$722, 059. 46
Property acquired during fiscal year 1943–1944	37, 857. 79
Total	$759, 917. 25
Deduction corresponding to worn out articles	16, 697. 95
Present value of property under this Department on June 30th., 1944	$743, 219. 30

The following table shows a comparison of the expenditures of this fiscal year, with those of the previous year:

Fiscal Year	Vouchers	Amount	Cash Payments	Amount	Total
1942–1943	11, 381	$4, 598, 343. 78	137, 943	$2, 329, 346. 69	$6, 927, 690. 47
1943–1944	10, 279	3, 631, 013. 46	125, 125	2, 059, 453. 29	5, 690, 466. 75
DIFFERENCE	1, 102	—$967, 330. 32	—12, 818	—$269, 893. 40	—$1, 237, 223. 72

CHANGES IN PERSONNEL

During this fiscal year 1943–1944, the following changes were made in the personnel of this Department:

Permanent appointments, 83; temporary appointments, 226; reinstatements, 3; transfers to this Department, 3 and from this Department, 1; 119 increase and 3 reductions in salaries; ceased 114; Military Service, 10; deceased, 5; retirements, 1; promotions, 39.

Mr. Carlos Tallada was promoted from Chief Clerk, Division of Public Buildings and Municipal Works, to Assistant Director, Bureau of Automobiles and Traffic, July 20, 1943.

Mr. José H. Méndez was promoted from Assistant Civil Engineer, Division of Maintenance of Roads and Bridges, to Civil Engineer Director, Bureau of Automobiles and Traffic, July 21, 1943.

Mr. Ernesto A. Piñero was appointed Civil Engineer Director, Division of Maintenance of Roads and Bridges, August 12, 1943.

Mr. Jesús Benítez Castaño was appointed Superintendent of Public Works, September 13, 1943.

Mr. Emilio López Ramírez was appointed Administrative Officer, April 1, 1944.

Mr. Enrique González Cuebas was appointed Land Appraiser, Division of Construction and Inspection, April 18, 1944.

Mr. Miguel A. Barasorda was promoted from Assistant Director, to Park Director, Muñoz Rivera Park, May 7, 1944.

SERVICE OF CLAIMS, ADVICE AND LEGAL ASSISTANCE

Besides the numerous condemnation proceedings instituted and prosecuted by the Service of Claims, Advice and Legal Assistance during the fiscal year 1943–1944 for the acquisition of right-of-way to carry out the construction and widening of insular roads and bridges, many other cases of a varied nature were prepared, filed and prosecuted in cooperation with the Department of Justice, before different offices of the Insular Government, such as the Public Service Commission and the Civil Service Commission, and before our insular courts.

The Service advised the Commissioner of the Interior and the heads of bureaus and divisions on legal questions arising in connection with the scope of their powers and duties, the carrying out of projects and the performance of contracts entered into by the Department. Likewise, various claims, most of them for damages, were investigated, studied, and opinions rendered thereon. The service drafted the bills in which this Department was interested, to be introduced in the Legislature. It also prepared the reports in connection with bills submitted by the Governor for recommendation thereon. In its regular session of the year 1944 the Insular Legislature approved the following acts which were drafted and presented by this Department:

1. Act No. 52, approved May 5, 1944. This Act appropriates the sum of $150,000 for the purchase of a lot in the city of Mayagüez and the construction, in that lot, of a building for the Vocational School of said city.

2. Act No. 88, approved May 11, 1944. This Act facilitates the appropriation of $300,000 provided by Act No. 160 of 1941, for the works in the bulkhead of the city of Ponce.

3. Act No. 66, approved May 9, 1944. This Act appropriates the sum of $200,000 for the construction of the ''Pasto Road'', included in the General Plan of Municipal Roads with the Number 9, according to Act No. 143, approved May 15, 1937, with an approximate length of 15 kilometers, which road, starting at the ''Sierra Baja Road'' of the Municipality of Guayanilla, crosses the wards Jagua and Pasto of said Municipality and joins the Garzas Road of the municipal district of Adjuntas.

4. Act No. 91, approved May 11, 1944. This Act includes under Number 34 in the Item "District No. 5-Adjuntas" of the General Plan of Municipal Roads included in Act No. 143, approved May 15, 1937, as subsequently amended, the road known as "Pellejas", already constructed by the Municipality of Adjuntas, which, starting at kilometer 39 hectometer 4, of the road which leads from Ponce to Arecibo, crosses the ward Pellejas of said Municipality.

5. Act No. 84, approved May 10, 1944. This Act authorizes the Commissioner of the Interior of Puerto Rico to constitute in perpetuity in favor of the United States of America, a right-of-way for pipes across certain sections of insular roads Nos. 3, 23 and 32, to be used in connection with the supplementary works of the San Juan waterworks.

6. Act No. 67, approved May 9, 1944. This Act appropriates the sum of $60,000 for the construction of 5 kilometers of "Las Boquillas Road" of Manatí, known as "Tierras Nuevas Poniente", which starts at Pueblo Poniente and crosses Bajura Afuera and Tierras Nuevas Poniente of Manatí, as authorized by Act No. 143, approved May 15, 1937.

7. Act No. 74, approved May 9, 1944. This Act appropriates the sum of $15,000 and directs the construction of one kilometer of road in the Municipality of Utuado, which, starting at kilometer 3 of the Insular Road number 27, crosses the wards Viví Abajo, Viví Arriba and Consejo.

8. Act No. 55, approved May 5, 1944. This Act appropriates the sum of $60,000 for the survey and construction of 3 kilometers of the Guilarte Road, of the Municipality of Adjuntas, which crosses the wards of Yayares, Guilarte, Limaní and Guayo, of Adjuntas, and which appears in the General Plan of Roads set forth in Act No. 123, approved May 15, 1936, ratified by Act No. 143, approved May 15, 1937, under Number 1 of Adjuntas, District No. 5, table number 3.

9. Act No. 35, approved April 29, 1944. This Act includes in the General Plan of Municipal Roads, created by Act No. 143, approved May 15, 1937, a section of road approximately 5.7 kilometers long, located in the Municipality of Coamo, which road starts as a prolongation of Ruiz Belvis Street of said Municipality, crosses the wards Pasto and the mountains, in the district called "La Cuesta Pulguillas", in a northeast direction and joins the "Pulguillas-Asomante Road", approximately at kilometer 5.

10. Act No. 34, approved April 29, 1944. This Act includes in the General Plan of Municipal Roads, created by Act No. 143, approved May 15, 1937, as subsequently amended, the road known as ''Pámpanos'' in the jurisdiction of the Municipality of Vega Alta, with a length of approximately 6 kilometers, which road begins at kilometer 34, hectometer 2, of Insular Road No. 2, and crosses in a southerly direction, the barrios of Espinosa and Maricao of Vega Alta.

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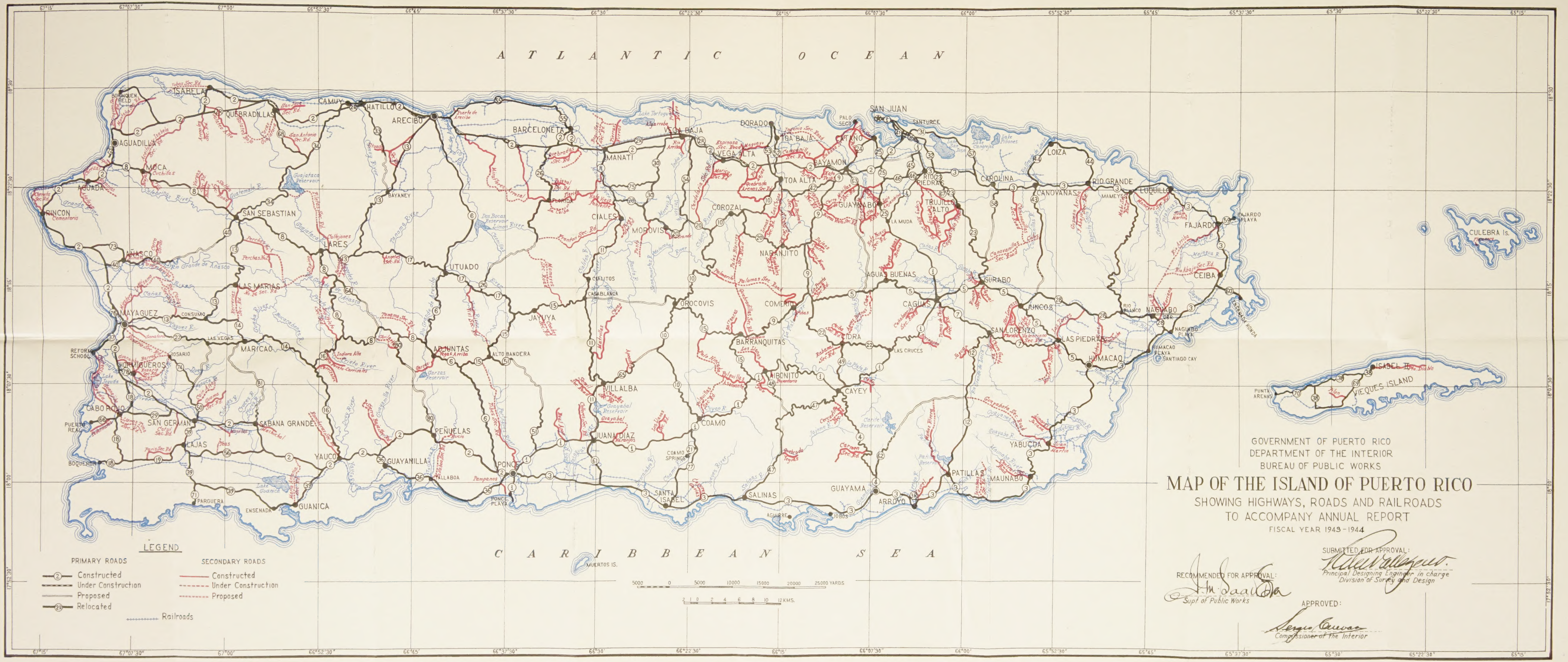
ATLANTIC OCEAN
CARIBBEAN SEA
ISABELA
BORINQUEN FIELD
QUEBRADILLAS
CAMUY
HATILLO
ARECIBO
BARCELONETA
MANATI
VEGA BAJA
VEGA ALTA
DORADO
TOA BAJA
CATAÑO
SAN JUAN
PALO SECO
SANTURCE
BAYAMON
TOA ALTA
GUAYNABO
RIO PIEDRAS
TRUJILLO ALTO
CAROLINA
LOIZA
CANOVANAS
RIO GRANDE
MAMEYES
LUQUILLO
FAJARDO
FAJARDO PLAYA
CULEBRA IS.
CEIBA
ENSENADA HONDA
NAGUABO
RIO BLANCO
NAGUABO PLAYA
HUMACAO
HUMACAO PLAYA
SANTIAGO CAY
YABUCOA
MAUNABO
PATILLAS
ARROYO
GUAYAMA
JOBOS
AGUIRRE
SALINAS
SANTA ISABEL
COAMO
COAMO SPRINGS
JUANA DIAZ
PONCE
PONCE PLAYA
PEÑUELAS
GUAYANILLA
TALLABOA
YAUCO
GUANICA
ENSENADA
PARGUERA
LAJAS
SABANA GRANDE
SAN GERMAN
CABO ROJO
PUERTO REAL
BOQUERON
HORMIGUEROS
REFORM SCHOOL
MAYAGUEZ
AÑASCO
RINCON
AGUADA
AGUADILLA
MOCA
SAN SEBASTIAN
LARES
LAS MARIAS
MARICAO
CONSUMO
ROSARIO
LAS VEGAS
ADJUNTAS
UTUADO
JAYUYA
ALTO BANDERA
CIALES
MOROVIS
CIALITOS
CASABLANCA
OROCOVIS
VILLALBA
COROZAL
NARANJITO
COMERIO
BARRANQUITAS
AIBONITO
CIDRA
CAYEY
LAS CRUCES
AGUAS BUENAS
CAGUAS
LA MUDA
GURABO
JUNCOS
SAN LORENZO
LAS PIEDRAS
VIEQUES ISLAND
ISABEL II
PUNTA ARENAS
MUERTOS IS.
Guajataca Reservoir
Dos Bocas Reservoir
Garzas Reservoir
Guayabal Reservoir
Carite Reservoir
Lake Guanica
Lake Tortuguero
Lake Loiza
LEGEND
PRIMARY ROADS
Constructed
Under Construction
Proposed
Relocated
SECONDARY ROADS
Constructed
Under Construction
Proposed
Railroads
5000 0 5000 10000 15000 20000 25000 YARDS
2 1 0 2 4 6 8 10 12 KMS.
67°15'
67°07'30"
67°00'
66°52'30"
66°45'
66°37'30"
66°30'
66°22'30"
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18°30'
18°22'30"
18°15'
18°07'30"
18°00'
17°52'30"

GOVERNMENT OF PUERTO RICO
DEPARTMENT OF THE INTERIOR
BUREAU OF PUBLIC WORKS

MAP OF THE ISLAND OF PUERTO RICO

SHOWING HIGHWAYS, ROADS AND RAILROADS
TO ACCOMPANY ANNUAL REPORT
FISCAL YEAR 1943-1944

SUBMITTED FOR APPROVAL:
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Supt. of Public Works

APPROVED:
Sergio Cuevas
Commissioner of the Interior

REPRODUCED BY DEPARTMENT ENGINEER, HQ. P.R.D., 1943

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